

KENWOOD

MICRO HI-FI COMPONENT SYSTEM

HM-DV7

INSTRUCTION MANUAL

KENWOOD CORPORATION



2 Before applying power

 **Caution : Read this page carefully to ensure safe operation.**

Units are designed for operation as follows.

Europe and U.K. AC 230 V only

Australia AC 240 V only

Other countries AC 110 – 240 V

For the United Kingdom

Factory fitted moulded mains plug

1. The mains plug contains a fuse. For replacement, use only a 13-Amp ASTA-approved (BS1362) fuse.
2. The fuse cover must be refitted when replacing the fuse in the moulded plug.
3. Do not cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or adapter, or consult your dealer. If nonetheless the mains plug is cut off, remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.





IMPORTANT : The wires in the mains lead are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

Do not connect those leads to the earth terminal of a three-pin plug.

Safety precautions

WARNING : TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN		CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.		
	THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.		

The marking of products using lasers (For countries other than U.S.A., U.S.-Military and Canada)

**CLASS 1
LASER PRODUCT**


The marking this product has been classified as Class 1. It means that there is no danger of hazardous radiation outside the product.
Location: Back panel


**CAUTION
VISIBLE LASER RADIATION
WHEN OPEN. DO NOT
STARE INTO BEAM.**


Inside this laser product, a laser diode classified as Class 2 laser radiation is contained as alerted by the internal caution label shown above. Do not stare into beam.
Location: DVD laser pick-up unit cover inside this product

Special features

Versatile DVD VIDEO Functions

Multi-audio function: With DVD discs marked with the  icon, the desired language can be played back by selecting it from up to 8 languages. (The number of available languages is variable depending on the discs.)

Multi-subtitle function: With DVD discs marked with the  icon, the subtitle language can be selected from up to 32 languages. (The number of subtitle languages is variable depending on the discs.)

Angle function: With DVD discs marked with the  icon, a single object can be viewed in up to 9 angles by switching. (The number of available angles is variable depending on the discs.)

"uni round speaker" built in

This speaker incorporates only one satellite speaker and subwoofer to allow you enjoy the stereo audio without limitation of the listening area.

MP3 playback

Music files recorded in the MP3 audio compression format can be played back.

Versatile timer features

- **Sleep timer :**
The unit is turned OFF automatically after the specified period has elapsed. It is convenient for example for falling asleep while listening to music in the night time, etc.
- **O.T.T. :**
This timer setting is executed only for an hour (and for once) when the set start time comes.
- **Timer playback :**
Two timer programs (PROG.1, PROG.2) are available for timer playback (AI timer playback). (With the AI timer playback, the playback volume increases gradually after the start of timer playback.)

This document classifies the applications of each feature using the following icons.

 : Description of a feature that can be used with DVD VIDEO.

 : Description of a feature that can be used with VIDEO CD.

 : Description of a feature that can be used with CD (CD-R/RW).

 : Description of a feature that can be used with MP3.

Unpacking

Unpack the unit carefully and make sure that all the accessories are present.

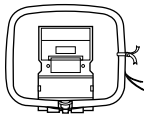
If any accessories are missing, or if the unit is damaged or fails to operate, notify your dealer immediately. If the unit was shipped to you directly, notify your shipper immediately. Kenwood recommends that you retain the original carton and packing materials in case you need to move or ship the unit in the future.

Keep this manual handy for future reference.

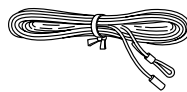
Accessories

Please confirm that the following accessories are present.

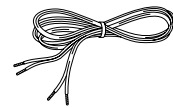
AM loop antenna (1)



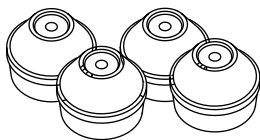
FM indoor antenna (1)



Speaker cord (1)



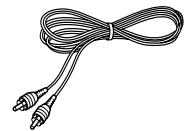
Feet for speaker (4)



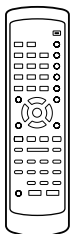
Cushion for satellite speaker (4)



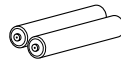
Video cord (1)



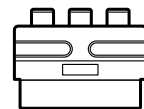
Remote control unit (1)



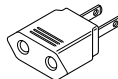
Batteries (R6/AA) (2)



**SCAT plug adaptor for TV (1)
(For Europe and U.K.)**



AC plug adaptor (1)



Use to adapt the plug on the power cord to the shape of the wall outlet.
(Accessory only for regions where use is necessary.)

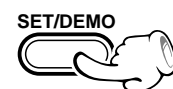
In regard to demonstration

This unit is equipped with a demonstration function (only display). The demonstration consists of sequential change of display and indicators showing the operations, but the audio itself does not change. The demonstration function can be cancelled as follows.

- This operates automatically when a power failure has occurred or the plug of the power cable has been pulled while the power was ON.

"DEMO OFF" (To cancel demonstration):

Press the **SET/DEMO** key during demonstration.





"DEMO ON" (To execute demonstration):

After turning power ON, press and hold the **SET/DEMO** key (for more than 2 seconds).

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Malfunction of microcomputer

If operation is not possible or erroneous display appears even though all connections have been made properly, reset the microcomputer referring to "In case of difficulty". → 68

Connection of the System Accessories

Connect the antenna as shown in the figure.

Do not plug the power cord into a wall AC outlet until the connection has been completed.

Connection of the Accessory Antenna

FM indoor antenna

The accessory antenna is for temporary indoor use only. For stable signal reception we recommend using an outdoor antenna.

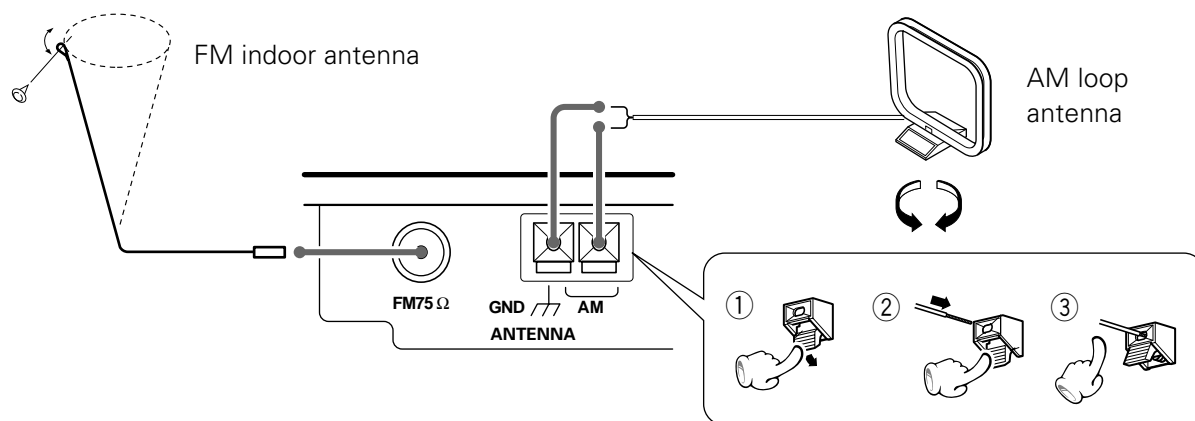
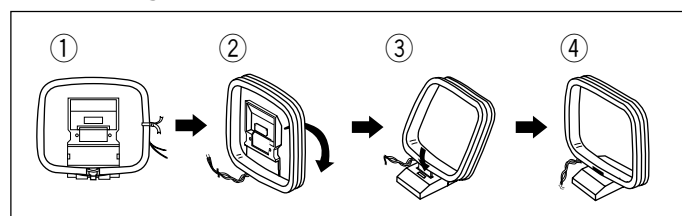
Remove the indoor antenna if you connect one outdoors.

- ❶ Connect the antenna to the antenna terminal.
- ❷ Locate the position providing good reception condition.
- ❸ Fix the antenna.

AM loop antenna

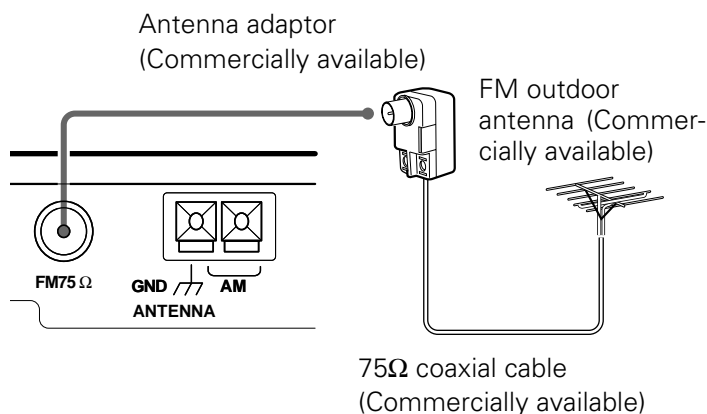
The supplied antenna is for indoor use. Place it as far as possible from the main system, TV set, speaker cords and power cord, and set it to a direction which provides the best reception.

Assembling the antenna



FM outdoor antenna (Commercially available)

Lead the 75Ω coaxial cable connected to the FM outdoor antenna into the room and connect it to the FM 75Ω terminal. Please remove the indoor antenna after an outdoor antenna has been installed.

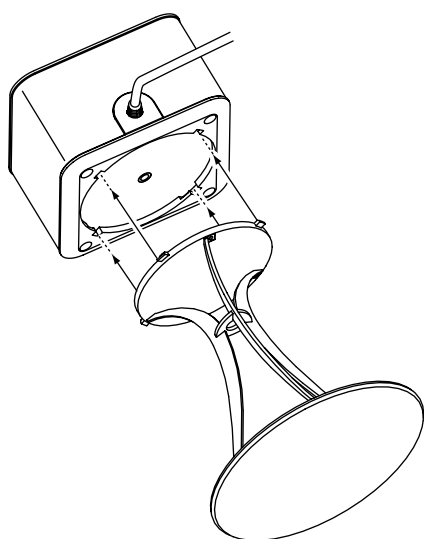


Connection of speakers

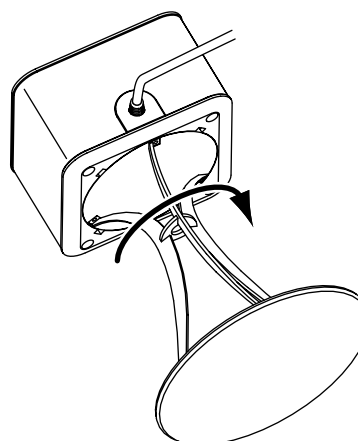
Assembling the satellite speaker

The satellite speaker comes without the stand attached to it. It is required to attach a stand to the satellite speaker before connecting it to the main unit. However, if required, the satellite speaker can be installed without a stand. In this case, attach the provided cushion on the bottom of the satellite speaker.

❶ Align the tabs on the stand with the notches on the stand mount position of the satellite speaker.



❷ Turn the stand clockwise until it is stopped.

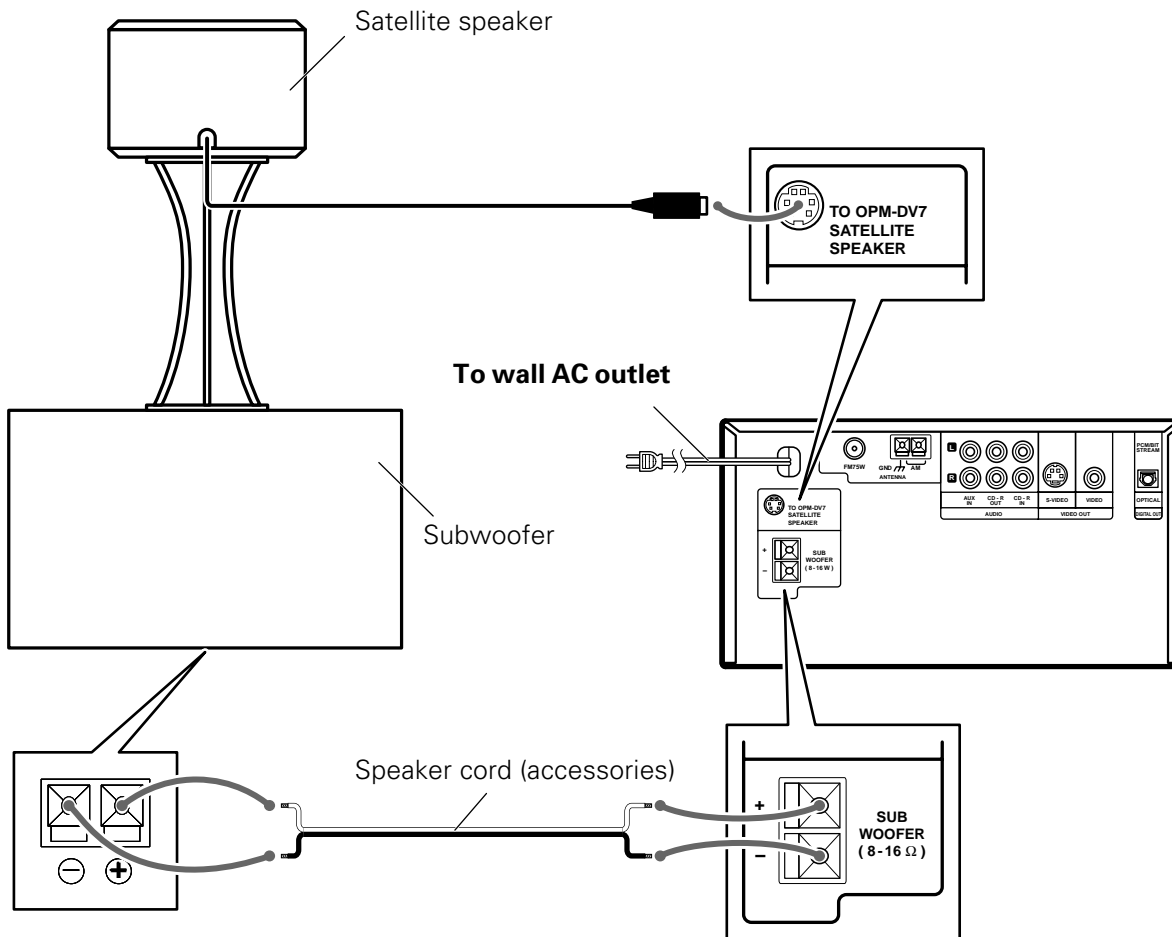


Installation of speakers and positioning of TV

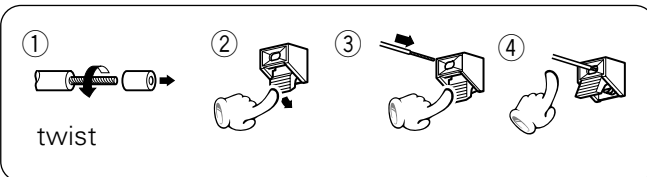
1. Color irregularities on the TV screen may also be produced depending on the method how the speakers are installed. When color irregularities are observed after the speaker installation, first turn the TV off, wait for 15 to 30 minutes and turn it on again: The interference may be improved by the self-demagnetizing function of the TV. If the color irregularities still remain, install the speakers more apart from the TV.
2. If a source of magnetism such as a magnet is located near the speakers, its interaction with the speakers may cause color irregularities on the TV screen. Also take care of this point when installing the speakers.
3. Due to induction by the electromagnetic waves produced by a TV, the speakers may produce sound even when the stereo unit is turned off. In this case also, install the speakers more apart from the TV.

- Never short-circuit the "+" and "-" speaker cords.
The protection circuit will operate and no sound will be put out.
- The "+" and "-" polarity are inverted, the sound will be unnatural with unclear localization of musical instruments.

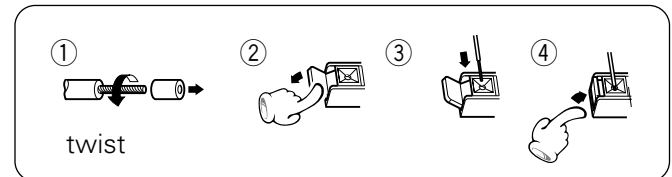
Do not carry the subwoofer by inserting your hand in the hole on the front. Also take care not to touch the speaker unit on the bottom when handling the subwoofer.



Speaker rear panel



Main unit



CAUTION

Be sure to adhere to the following, or proper ventilation will be blocked causing damage or fire hazard.

- Leave some space around the unit (from the largest outside dimension including projection) equal to or greater than, shown below.

Back panel : 10 cm

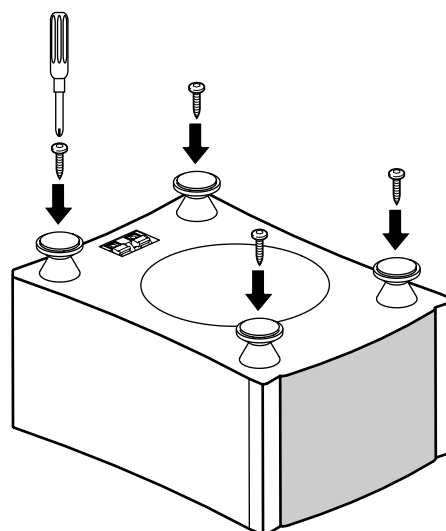


1. Be sure to insert all connection cords securely. If their connections are imperfect, the sound may not be produced or noise may interfere.
2. Before plugging or unplugging a connection cord, be sure to unplug the power cord from the wall AC outlet. If connection cords are plugged or unplugged with the power cord left plugged in, malfunction or damage may result.

Replacing the feet with the provided feet

The feet of the provided speaker can be replaced as required.

- ❶ Remove the four feet on the front and rear part of the bottom panel using a screwdriver.
- ❷ Attach the feet to the specified positions on the side panel. (Use the screws removed in ❶ for attaching.)



- Do not install the subwoofer without feet.

Channel space setting (Except for U.K., Europe and Australia)

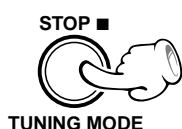
The space between radio channels has been set to the one that prevails in the area to which the system is shipped. However, if the current channel space setting does not match the setting in the area where the system is to be used, for instance when you move from area 1 or area 2 shown in the following table or vice versa, proper reception of AM/FM broadcasts cannot be expected. In this case, change the channel space setting in accordance with your area by referring to the following table.

Main unit only

- ❶ Select the "TUNER" input.



- ❷ Press the STOP ■/TUNING MODE key. (for more than 5 seconds)



Each press switches the space frequency alternately.

- ❶ FM 50 kHz, AM 9 kHz
- ❷ FM 100 kHz, AM 10 kHz

	Area	CHANNEL Space Frequency
❶	USA, Canada and South American countries	FM: 100 kHz AM: 10 kHz
❷	Other countries	FM: 50 kHz AM: 9 kHz

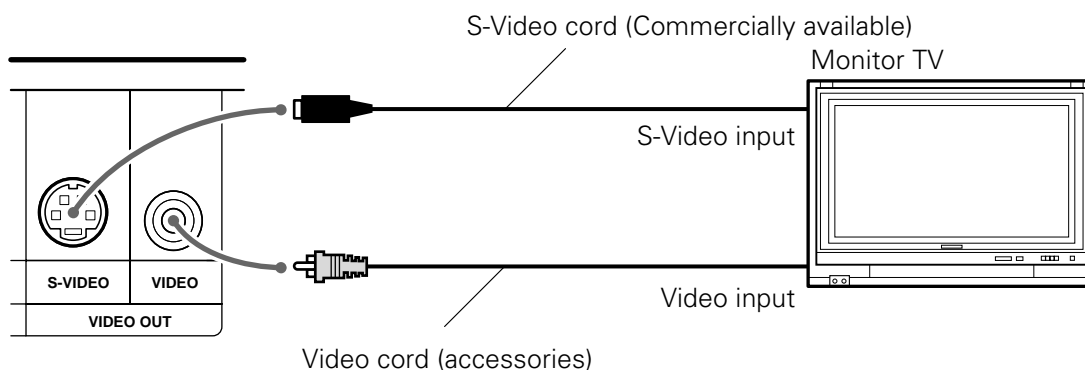
Connection of Other Accessories (Commercially Available Parts)

When connections are to be made, make sure that the power plug is not plugged into a wall AC outlet. Connect the equipment as shown in the figures.

To Connect a TV

Set initial setup **"TV Aspect"** according to the aspect ratio (4:3 or 16:9) of your TV. → 38

If the TV has an S Video input connector, connect the **VIDEO OUT S-VIDEO** connector of the player to it using the provided S Video cord.



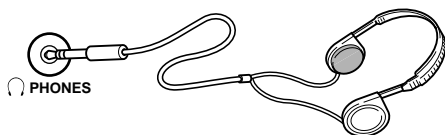
Select the video connection method according to the TV in use. (When S-Video cable is connected, the ordinary video connection is not necessary.)



The video output from the player should be connected directly to the TV. If the video output is connected through a VCR, the picture displayed on the TV may be disturbed due to the copy protect function.

Using Headphones

- 1 Insert the headphone plug into the PHONES jack.



- Headphones with a stereo mini plug can be connected.
- The sounds from all speakers are cut off.

- 2 Adjust the volume with the **VOLUME/MULTI CONTROL** knob.

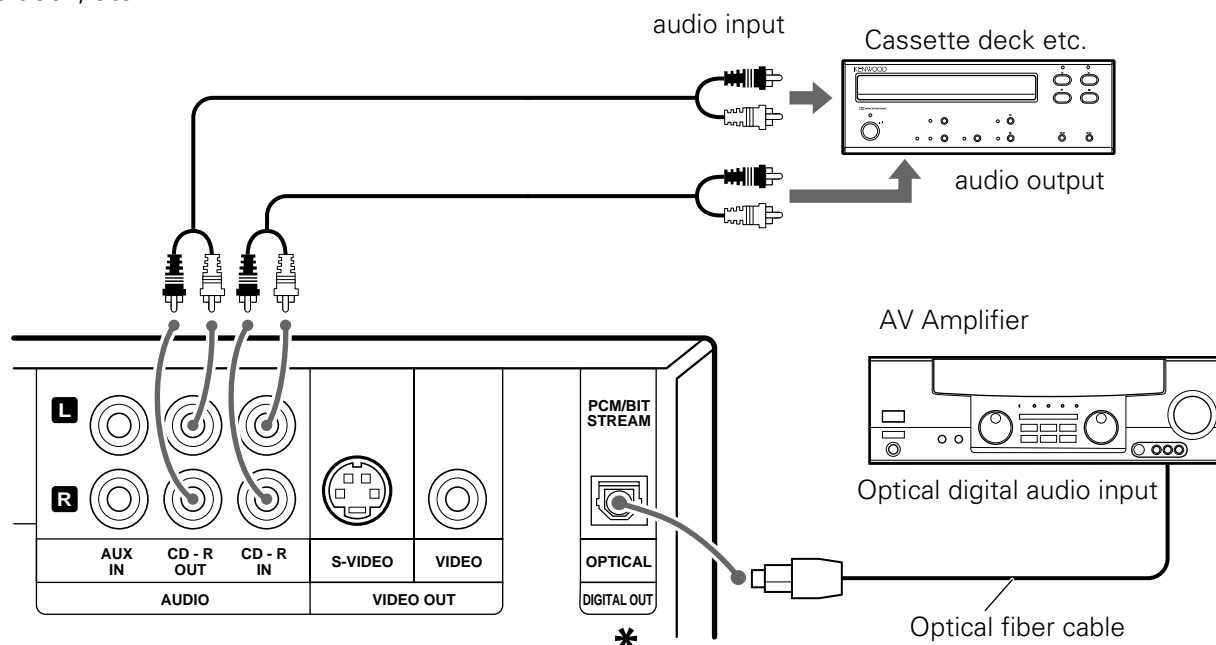


When a DTS-encoded disc (CDs, LDs, DVDs) is played, noise may interfere with the headphone output. To enjoy DTS digital surround playback through headphones, connect an external 5.1-channel DTS digital surround decoder system to the digital output of the DVD player and use the headphones jack of your amplifier or receiver.

Connection of external source component

Analog signal connection

The **AUDIO CD-R IN/CD-R OUT (AUDIO AUX IN)** input jacks on the rear panel can be used to connect a cassette deck, etc.



* Digital outputs are available only from DVD, VCD and CD.

Digital signal connection

The recommended setup for "Digital Audio" is variable depending on the equipment connected to the digital audio output. → 41

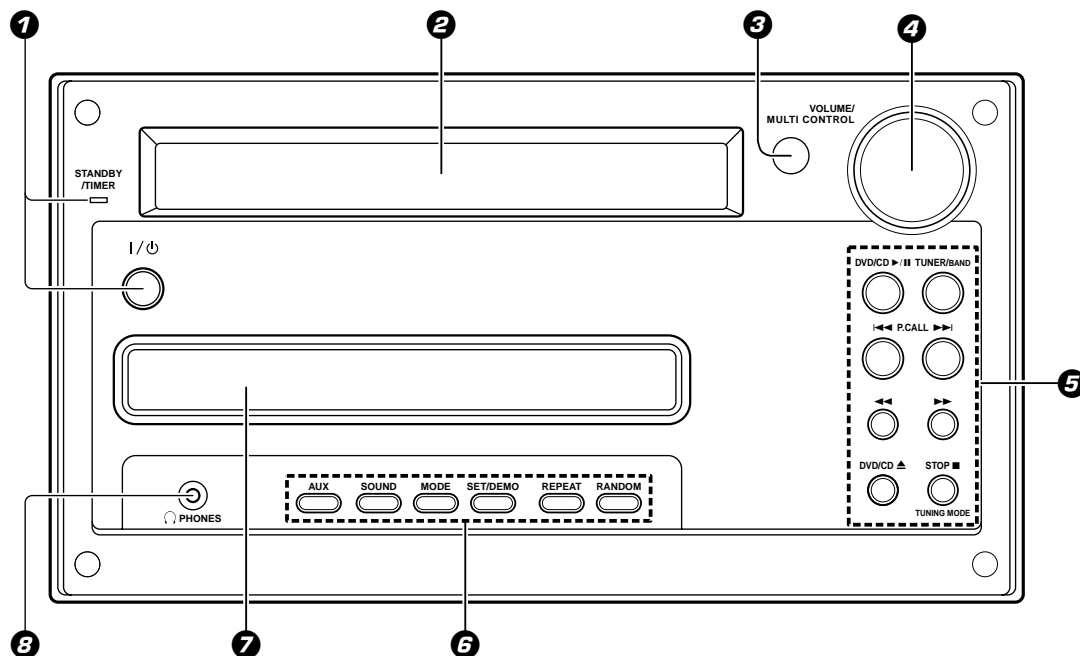
DTS disclaimer clause

When playing DTS-encoded (CDs, LDs, DVDs), excessive noise will be exhibited from the analog stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analog stereo outputs of the DVD player is connected to an amplification system. To enjoy DTS Digital Surround™ playback, an external 5.1 channel DTS Digital Surround™ decoder system must be connected to the digital output (S/P DIF, AES/EBU, or TosLink) of the DVD player.



1. This unit always down-mixes multi-channel surround audio into 2-channel audio and outputs it from the **AUDIO CD-R OUT, DIGITAL OUT OPTICAL** and **PHONES** jacks. However, with certain discs, this unit outputs only the Front (L/R) channel signals in place of the down-mixed 2-channel signals.
2. In case an associated system component is connected, also read the instruction manual of the component.
3. Insert the optical-fiber cable straight into the connector until it clicks.
4. Never bend or bundle the optical-fiber cable.

Main unit



1 I / ⏻ key

Press to set the unit to ON or STANDBY.

→ 22 → 59 → 62

STANDBY/TIMER indicator

When power is ON : Goes off.

When power is OFF (standby) : Lights in red → 13

During timer standby : Lights in amber. → 59 → 62

2 Display

3 Remote sensor (remote)

4 VOLUME/MULTI CONTROL knob

This knob is usually used to adjust the listening volume but can also be used in setting selection, timer reservation and clock adjustment operations.

→ 13 → 17 → 22

5 DVD/CD ► / || key

When power is ON:

Press to select the "DVD/CD" input. → 24

When power is OFF (standby):

Press to turn the system power ON and start DVD (VCD, CD, MP3). playback. → 22

When "DVD/CD" input is selected:

Press to start playback or let it pause. → 24

TUNER/BAND key

When power is ON:

Press to select the tuner input. → 31

When power is OFF (standby):

Press to turn the system power ON and start radio reception on the tuner. → 22

During tuner reception:

Press to switch the radio band. → 31

◀◀ P.CALL ▶▶ keys

During DVD (VCD, MP3, CD) playback :

Press to skip in the forward or backward direction. → 26

During tuner reception:

Press to receive a preset station. → 31

◀◀, ▶▶ keys

During DVD (VCD, CD, MP3) playback :

Press to search in the forward or backward direction. → 26

During tuner reception:

Press to select radio stations. → 33

DVD/CD ▲ key

This key is pressed to remove DVD (VCD, CD, MP3).

STOP■/TUNING MODE key

When power is OFF (standby):

Press to display the time of the day for 5 seconds. → 17

During DVD (VCD, MP3, CD) playback :

Press to stop playback.

During tuner reception:

Press to switch the tuning mode of the tuner.

6 AUX key

Press when playing or recording the input source connected to the **AUDIO CD-R IN (AUDIO AUX IN)** (analog) input jacks. → 57

SOUND key

Press to adjust the tone. → 23

MODE key

Press to switch the function of the **VOLUME/MULTI CONTROL** knob to the menu select mode. → 13

This key is also used when setting the time of the day. → 17

SET/DEMO key

Press to set or enter an item selected with the **VOLUME/MULTI CONTROL** knob. → 17

This key is also used for switching demonstration on/off. → 4

REPEAT key

Press for repeat playback of a DVD (VCD, CD, MP3). → 54

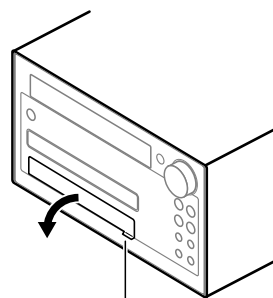
RANDOM key

Press to play the tracks in a CD (VCD) in a random order. → 56

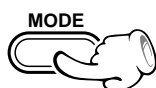
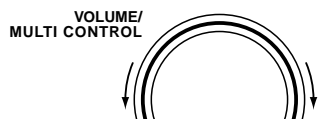
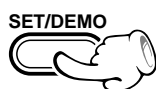
7 DVD/CD tray**8 PHONES jack**

Plug headphones with a stereo mini-plug (optional). → 10

- Open the door to use **6** and **8**.



Lower this part to open the door.

Operation in menu mode**1 Press the MODE key.****2 Select the item to be set.****3 Press the SET/ DEMO key.**

Each turn changes the displayed item.

"TIMER SET" → 59 → 60

"A.P.S." → 16

"SW LEVEL" → 23

"INPUT LEVEL" → 57

(Only when the AUX input is selected)

"BALANCE" → 23

"TIME ADJUST" → 17

"AUTO MEMORY" or "AUTO PRESET" → 32

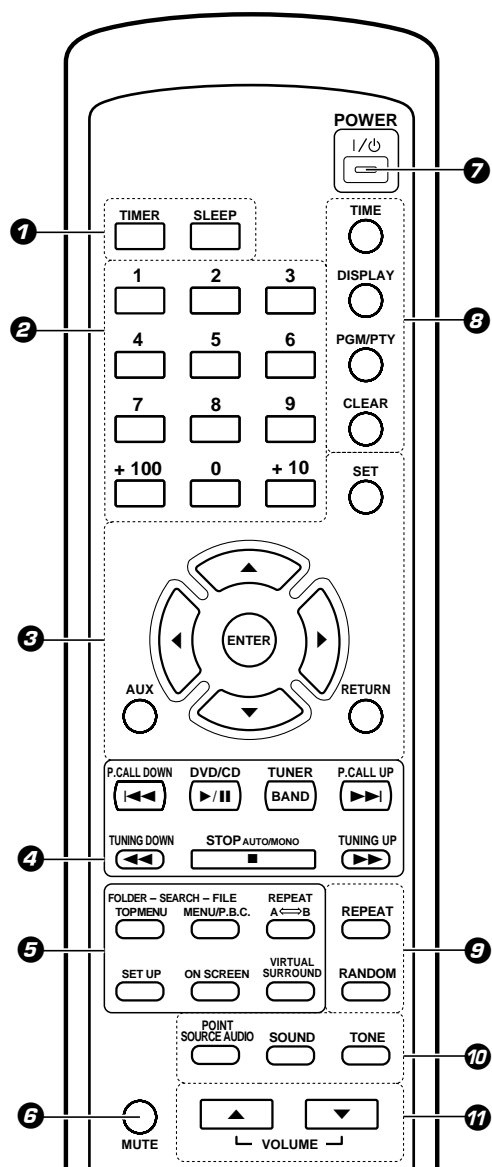
(Only when the TUNER input is selected)

"DIMMER" → 16

Standby mode

While the standby indicator is lit, a small amount of power is supplied to the system to back up the memory. This is called standby mode. Under the condition, the system can be turned ON by the remote control unit.

Operation of remote control unit



Infrared ray system

Model : RC-F0505E (For U.K. and Europe)

: RC-F0505 (For other countries)

1 TIMER key

Press to execute or cancel a timer program. → 62

SLEEP key

Press to set the sleep timer. → 58

2 Numeric keys

When "DVD/CD" input is selected:

Press to enter numbers. → 27

During tuner reception :

Press when recalling a preset radio station. → 31 → 33

3 SET key

Press to set or enter a program. → 52

Cursor keys (◀ ▶ ▲ ▼)

Press one of these keys to select an item in the initial setup or other menu.

ENTER key

During tuner reception:

Press to enter a manual preset station. → 33

RETURN key

When a setting menu is displayed, press to return to the previous display page. → 35 → 38

AUX key

→ 57

4 P.CALL DOWN ◀◀, P.CALL UP ▶▶ keys

During DVD (VCD, CD, MP3) playback :

Press to skip in the forward or backward direction. → 26

During tuner reception:

Press to receive a preset station. → 31

DVD/CD ▶/II key

→ 22 → 24

TUNER/BAND key

→ 31

TUNING DOWN ◀◀, TUNING UP ▶▶ keys

During DVD (VCD, CD, MP3) playback :

Press to search in the forward or backward direction. → 26

During tuner reception:

Press to select a radio station. → 33

STOP■/AUTO/MONO key

5 TOP MENU/FOLDER SEARCH key

With a DVD VIDEO disc, press to display the top menu. → 25 → 34

With an MP3 disc, press to select a folder containing the file to be played. → 37

MENU/P.B.C./FILE SEARCH key

With a DVD VIDEO disc, press to display a menu. → 25 → 34

With P.B.C.-compatible VCD disc, press to switch the P.B.C. on and off. → 35

With an MP3 disc, press to select the MP3 file to be played. → 37

REPEAT A B key

Press to repeat playback of the designated section on a disc. → 55

SET UP key

Press to change the initial setup of the DVD player. → 38 → 41 → 44

ON SCREEN key

Press to display the OSD information on the connected TV screen. → 30

VIRTUAL SURROUND key

Press to switch Virtual Surround on and off. → 27

6 MUTE key

Press to mute sound temporarily. → 23

7 POWER (I / ⏻) key**8 TIME key**

When "DVD/CD" input is selected:

Press to switch the time information displayed during DVD (VCD, CD) playback. → 30

DISPLAY key

Press to switch the display mode of the display panel. → 30 → 48

PGM/PTY key (For Europe and U.K.)

Used in programming CD (VCD) tracks in the desired sequence. → 52

Used at the time of program type detection. → 49

PGM key (For other countries)

Used in programming CD (VCD) tracks in the desired sequence. → 52

CLEAR key

This key is used to clear the program. → 53

9 REPEAT key

Press for repeat playback of a DVD (VCD, CD, MP3). → 54

RANDOM key

Press to play the tracks in a CD (VCD) in a random order. → 56

10 POINT SOURCE AUDIO key

Press to switch the POINT SOURCE AUDIO function On and Off. → 23

SOUND key**TONE key**

Press to adjust the highest and lowest frequencies. → 23

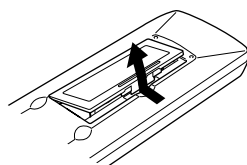
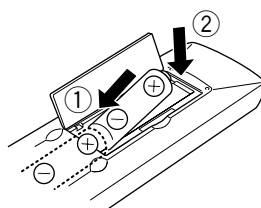
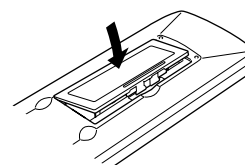
11 VOLUME key

Press to adjust the listening volume or tone.

→ 22 → 23

Press to select the PTY SEARCH. (For Europe and U.K.)

→ 49

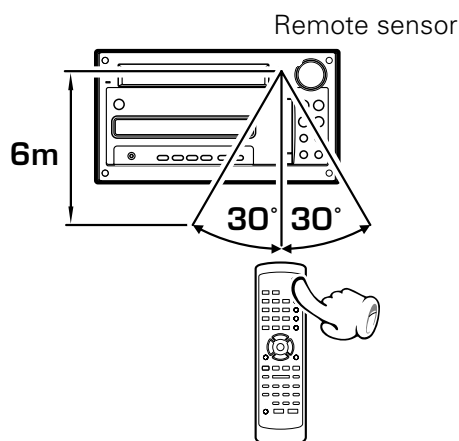
Loading batteries**1 Remove the cover.****2 Insert batteries.****3 Close the cover.**

- Insert two R6 ("AA"-size) batteries following the polarity indications.

Operation

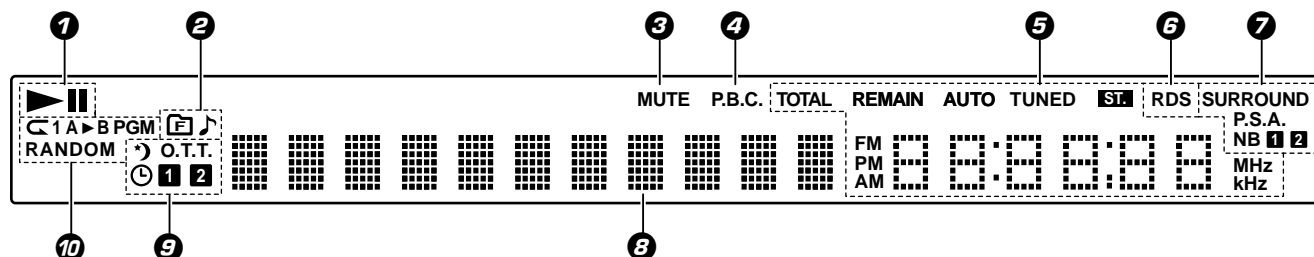
Plug the power cord into a power outlet and press the **POWER (I / ⏻)** key on the remote control unit to switch the power ON. Then press the key of the function you want to control.

- When pressing more than one remote control keys successively, press the keys securely by leaving an interval of 1 second or more between keys.

Operating range (approx.)

1. The provided batteries are intended for use in operation checking, and their service life may be short.
2. When the remote controllable distance becomes short, replace both of the batteries with new ones.
3. If direct sunlight or the light of a high-frequency fluorescent lamp (inverter type, etc.) is incident to the remote sensor, malfunction may occur. In such a case, change the installation position to avoid malfunction.

Display



- 1** Play(▶)/Pause(⏸) indicator
- 2** MP3 indicator
 - Folder
 - File
- 3** MUTE indicator
- 4** P.B.C. indicator
- 5** Playback/Clock display/Tuning indicators
(Play time, Clock display, Frequency display, etc.)
- 6** RDS indicator (For Europe and U.K.)
- 7** Tone related indicators
(SURROUND, P.S.A., NB1, NB2)
- 8** Character information display
- 9** TIMER-related display
- 10** Special playback related indicators

Switching the Display Brightness

- 1** Press the MODE key.
- 2** Turn the VOLUME/MULTI CONTROL knob to select "DIMMER", then press the SET/DEMO key.
- 3** Turn the VOLUME/MULTI CONTROL knob to select "LOW" or "HIGH", then press the SET/DEMO key.

DIMMER

LOW

Auto Power Save (A.P.S.)

When the power has been left ON for more than 30 minutes while the unit has not been doing playback in this period, the A.P.S. function switches the power OFF (standby) automatically. Whether the A.P.S. function is to be used or not can be set with the following steps.

- 1** Press the MODE key.
- 2** Turn the VOLUME/MULTI CONTROL knob to select "A.P.S.", then press the SET/DEMO key.
- 3** Turn the VOLUME/MULTI CONTROL knob to select "ON" or "OFF", then press the SET/DEMO key.

A . P . S .

A . P . S . OFF

- With the TUNER and AUX input, A.P.S. functions only when the volume is set to zero.

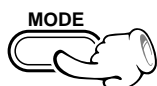
This unit incorporates a clock function. Be sure to adjust the correct time before using the timer function.

If there is a power failure or the power cord is unplugged then plugged in again while the power set to off (STANDBY mode) after a timer is activated, the STANDBY/TIMER indicator blinks in amber. In this case, adjust the clock again.

Switching the power ON

1 Activate the clock adjustment mode.

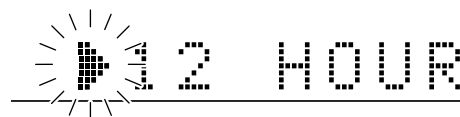
- 1 Press the MODE key.



- 2 Turn the VOLUME/MULTI CONTROL knob to select "TIME ADJUST", then press the SET/ DEMO key.

- 3 Turn the VOLUME/MULTI CONTROL knob to select "12 HOUR" or "24 HOUR", then press the SET/DEMO key.

TIME ADJUST



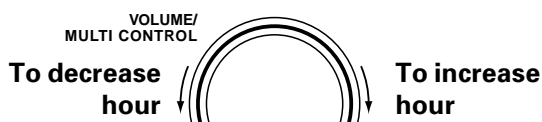
Blinks

Select the time display mode.

- The time of the day is represented in 12-hour or 24-hour method.

2 Enter the figure of hour.

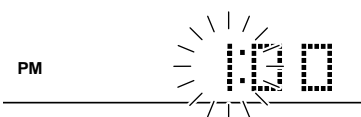
- 1 Adjust the figure of hour by turning the VOLUME/MULTI CONTROL knob.



- 2 Set it.



Example for adjusting at 1:30PM

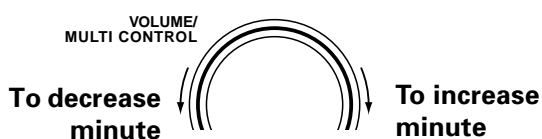


Blinks

- The time display starts to blink.
- Press the **SET/DEMO** key. The hour is entered and the minute display starts to blink.

3 Enter the figure of minute.

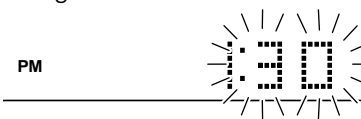
- 1 Adjust the figure of minute by turning the VOLUME/MULTI CONTROL knob.



- 2 Set it.



Example for adjusting at 1:30PM



Blinks

- If you pressed the **SET/DEMO** key by mistake, press the **MODE** key and restart from the beginning.
- To adjust correct time, press the **SET/DEMO** key at the same moment as a time announcement.
- When the **STOP■/TUNING MODE** key is pressed while the power is in the standby mode, the time of the day will be displayed for 5 seconds.

DVD VCD

The TV picture display and disc signal systems can be divided roughly into two TV formats (NTSC and PAL). They are variable depending on countries and areas.

This unit reproduces NTSC discs in NTSC format and PAL discs in PAL format. If the video formats of the disc and TV do not match, the disc cannot be reproduced correctly. It is therefore required to select the disc according to the TV set in use (country and area).

TV formats in major countries :

TV Format	Major Countries & Areas
NTSC	Japan, Taiwan, Korea, USA, Canada, Mexico, Philippines, Chile, etc.
PAL	China, U.K., Germany, Australia, New Zealand, Kuwait, Singapore, etc.

Checking the Video Format

Check the video format of the VCD and DVD discs to be played on the player as described below.

① Check if the video formats of the TV to be used and disc to be played match each other.

- For details, refer to the instructions provided with the TV and disc.

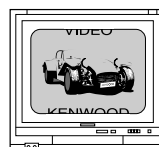
② When the TV is switchable between NTSC and PAL, set the TV format according to the disc format.

TV Format	Playable Disc Format
NTSC only	NTSC
PAL only	PAL
NTSC/PAL switchable	NTSC/PAL

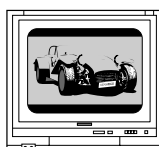
- Correct video cannot be reproduced if the video formats of the TV and disc do not match.

When the video formats are different :

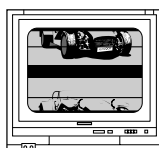
Try playing the disc. If the video formats of the disc and TV do not match, the played video may be black and white or become as shown below.



Top and bottom edges are not displayed.



Top and bottom areas are dark.



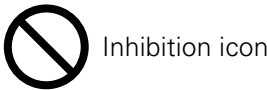
Picture turbulence due to sync unmatching.

Operation restriction according to the disc or player status DVD VCD







Operations of some DVDs and VCDs are restricted by the intention of the software producers. Operations may also be restricted due to the status of the player.

As this player plays discs in accordance with the intentions of software producers, some functions may not work as intended by the user. Be sure to read the manual provided with the disc to be played.

When an inhibition icon is displayed on the connected TV screen during operation, it indicates that the player is in the operation restricted status.



Systems and Types of Playable Discs

Playable Disc	DVD VIDEO	VCD	CD, CD-R/RW
Logo mark	  		 





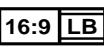
Unplayable Discs

Never attempt to play a Photo CD disc on this unit.

Other discs which cannot be played on this unit :








- SACD, DVD AUDIO, DVD-ROM, DVD-R/RAM, DVD-RW, CD-R/RW which has not been processed by session closing or finalization, CD-ROM, DTS-CD, SVCD, VSD, CDV*, CD-G*, CD-EG*, CD-EXTRA*, etc.
* Only the audio part can be reproduced.
- A DVD VIDEO disc with a region code which does not match this unit or without a region code. For details, see "Region Codes of This Player". → 20
- When the video format of a disc differs from that of the TV in use, the disc cannot be played normally. For details, see "Video Formats". → 18
- This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.

Icons Inscribed on DVD Discs DVD

-  Indicates the playable region code.
-  Indicates the number of languages in the audio. The figure in the icon shows the number (max. 8 languages).
-  Indicates the number of available subtitle languages. The figure in the icon shows the number (max. 32 subtitle languages).
-  Indicates the number of viewing angles which can be viewed with the angle function. The figure in the icon shows the number (max. 9 angles).
-  Indicates the number of available aspect ratios. LB stands for Letter Box and PS stands for Pan & Scan. (The example shown means that the 16:9 video can be converted into letterbox.)

Region Codes of This Player

A region code defined for each country or area is assigned for each DVD VIDEO player, so it cannot play a DVD VIDEO disc if its region code do not match that of this unit. Also, a disc which does not contain any region code may sometimes be unable to be played on the player. When purchasing a DVD VIDEO disc, make sure that it has a region code which can be played on your player.

Region Code of Player	Usable Country or Area		
	Canada, United States, American Samoa, Bermuda, Johnston Island, Midway Islands, Puerto Rico, St. Pierre and Miquelon, United States Virgin, Wake Island		
	Albania, Andorra, Austria, Bahrain, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Cyprus, Czech, Denmark, Egypt, Finland, France, Germany, Greece, Hungary, Iceland, Iran, Iraq, Ireland, Israel, Italy, Japan, Jordan, Kuwait, Lebanon, Lesotho, Liechtenstein, Luxembourg, Macedonia, Malta, Monaco, Netherlands, Norway, Oman, Poland, Portugal, Qatar, Romania, San Marino, Saudi Arabia, Slovakia, Slovenia, South Africa, Spain, Swaziland, Sweden, Switzerland, Syrian Arab Republic, Turkey, United Arab Emirates, United Kingdom, Vatican City State, Yemen, Yugoslavia, Channel Islands, Faeroe Islands, Gibraltar, Greenland, Isle of Man, Svalbard and Jan Mayen Islands		
	Brunei Darussalam, Cambodia, Indonesia, Korea, Laos, Malaysia, Myanmar, Philippines, Singapore, Thailand, Viet Nam, East Timor, Hong Kong, Macau, Taiwan		
	Antigua and Barbuda, Argentina, Australia, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, Fiji, Grenada, Guatemala, Guyana, Haiti, Honduras, Jamaica, Kiribati, Marshall Islands, Mexico, Micronesia, Nauru, New Zealand, Nicaragua, Palau, Panama, Papua New Guinea, Paraguay, Peru, Saint Christopher and Nevis, Saint Lucia, Saint Vincent and the Grenadines, Samoa, Solomon Islands, Suriname, Tonga, Trinidad and Tobago, Tuvalu, Uruguay, Vanuatu, Venezuela, Anguilla, British Virgin Islands, Cayman Islands, Christmas Island, Cocos Islands, Cook Islands, Falkland Islands, French Guiana, French Polynesia, Guadeloupe, Guam, Martinique, Montserrat, Netherlands Antilles, New Caledonia, Niue, Norfolk Island, Northern Mariana Islands, Pitcairn, Tokelau, Turks and Caicos Islands, Wallis and Futuna Islands		
	Afghanistan, Algeria, Angola, Armenia, Azerbaijan, Bangladesh, Belarus, Benin, Bhutan, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central Africa, Chad, Comoros, Congo, Cote d'Ivoire, Djibouti, Equatorial Guinea, Eritrea, Estonia, Ethiopia, Gabon, Gambia, Georgia, Ghana, Guinea, Guinea-Bissau, India, Kazakhstan, Kenya, Kyrgyz Republic, Latvia, Liberia, Libya, Lithuania, Madagascar, Malawi, Maldives, Mali, Mauritania, Mauritius, Moldova, Mongolia, Morocco, Mozambique, Namibia, Nepal, Niger, Nigeria, North Korea, Pakistan, Russia, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, Sri Lanka, Sudan, Tadjikistan, Tanzania, Togo, Tunisia, Turkmenistan, Uganda, Ukraine, Uzbekistan, Zaire, Zambia, Zimbabwe, British Indian Territory, Jammu and Kashmir, Mayotte, Reunion, St. Helena ex. dep., Western Sahara		
	China		Professional use (Air Line cabin service)

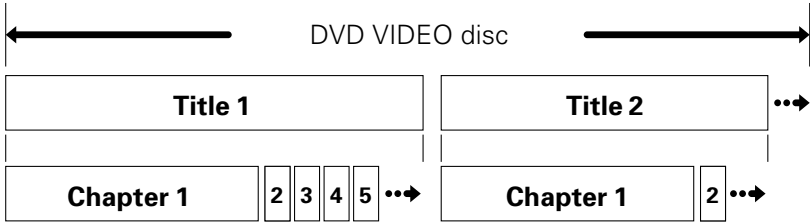
Region codes of the DVD VIDEO discs that can be played with this player

This player can play back a DVD VIDEO disc which carries the corresponding code to the region code of the player shown in the table above, a marking containing the region code of the player or the "ALL" marking shown below. Even when a DVD VIDEO disc does not carry any indication of the region code, it may sometimes unable to be played on this player due to certain restrictions.



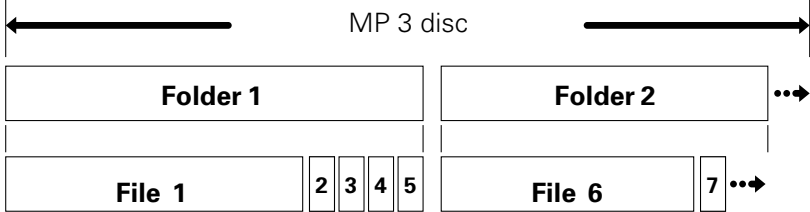
Configuration of Discs **DVD** **VCD** **CD** **MP3**

DVD VIDEO disc configuration



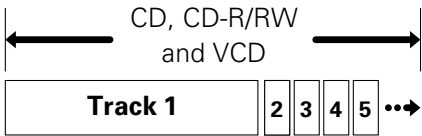
The title is the largest unit composing the music and/or pictures in an DVD VIDEO disc. Each title is composed of multiple chapters.

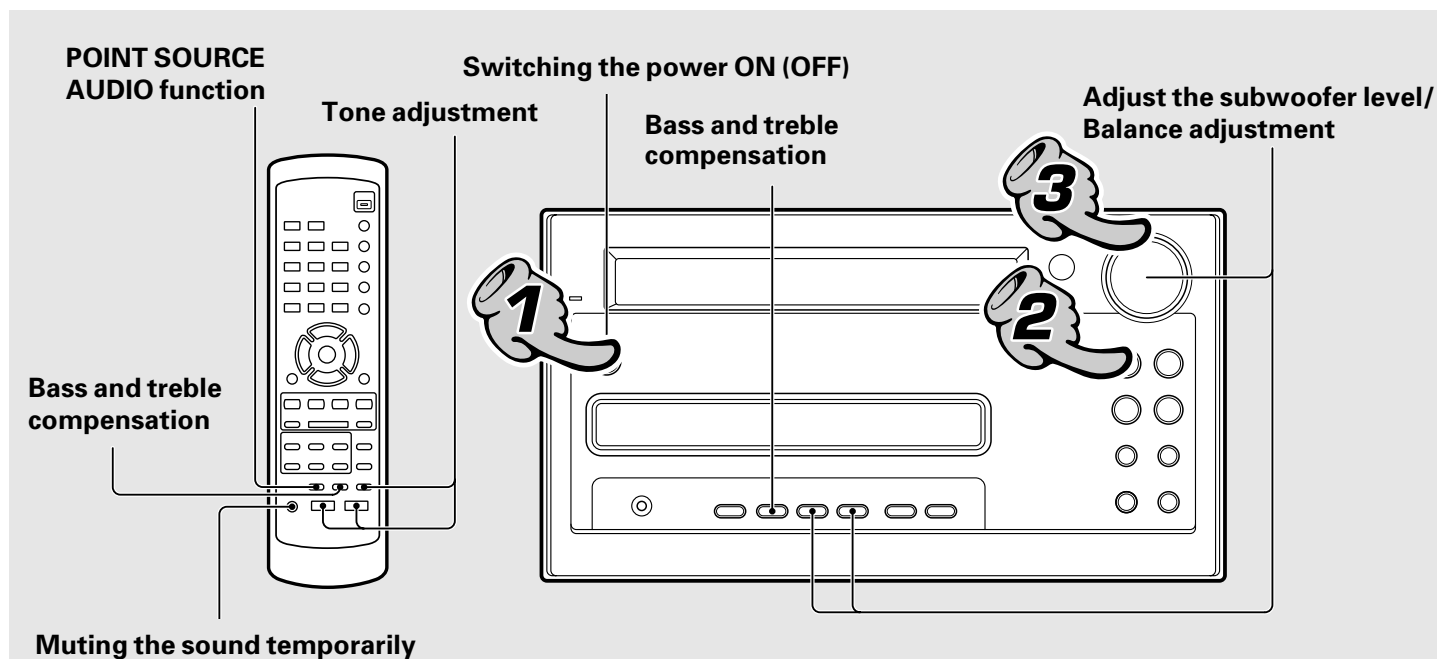
MP3 disc configuration



The folder is the storage unit at the highest level in the disc. Sometimes a single folder contains more than one file, or sometimes files are recorded directly in the disc in place of being included in a folder. Some discs also have a hierarchical structure in which a folder includes sub-folders. Note that the file numbers are not assigned on a per-folder basis but they are assigned consecutively for all the files in the whole disc.

CD, CD-R/RW and VCD disc configuration





1. Switching the power ON (OFF).

Pressing the **I/⏻** key when the unit is ON turns it off (Standby mode of power).

- Pressing the **DVD/CD ►/⏻**, **TUNER/BAND** or **AUX** key also turns power on and starts playback (reception) of the corresponding input. (One-touch operation)

Example:
To select the DVD/CD input



2. Selecting the desired output.

DVD/CD (DVD, MP3, VCD, CD) → [24]

TUNER (Broadcasts) → [31]

CD-R (Analog) [Adjusting the AUX Input Level → [57]]

Press the **AUX** key repeatedly until "CD-R" is displayed.

AUX (Analog) [Adjusting the AUX Input Level → [57]]

Press the **AUX** key repeatedly until "AUX" is displayed.

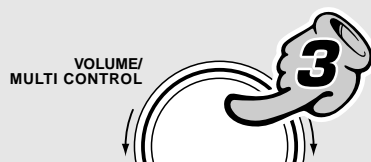


DVD T01 C01

0:01

When DVD has been selected.

- When **DVD/CD ►/⏻** is selected, playback will start when a disc already has been inserted.



The volume decreases

The volume increases

3. Volume adjustment.

- The same function is also available using the **VOLUME** keys on the remote control unit.

Volume display

VOLUME

35

Muting the sound temporarily

Remote control unit only



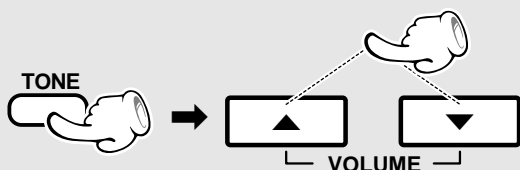
- Press again to resume the original volume.
- This is also cancelled when the volume is changed.

Tone adjustment

Remote control unit only

The responses of the lowest frequencies (BASS) and highest frequencies (TREBLE) can be adjusted as desired. After this adjustment, the N.B. effect will be disabled.

- 1 Press the TONE key to select "BASS".
Adjust the level of lowest frequencies as desired using the VOLUME keys.



- 2 Press the TONE key again while "BASS" is displayed to select "TREBLE".
Adjust the level of the highest frequencies using the VOLUME keys.

TREBLE +4

- 3 Press the TONE key.

- The "BASS" and "TREBLE" can be adjusted independently in the range from "- 8" to "+ 8".

Bass and treble compensation (NB : Natural Bass circuit)



Each press switch the modes as follows.

- 1 "NB 1" (Only the lowest frequencies are enhanced.)
- 2 "NB 2" (The lowest and highest frequencies are enhanced according to the current volume level.)
- 3 "NB OFF" (The source signal is processed by the tone control circuitry before being output from the main unit.)

POINT SOURCE AUDIO function

Comfortable stereo sound can be enjoyed regardless of where you are in the room.



Each press switch the modes as follows.

- 1 On : "P.S.A." lit
- 2 Off : "P.S.A." not lit

Adjust the subwoofer level

- 1 Press the MODE key.
- 2 Turn the VOLUME/MULTI CONTROL knob to select "SW LEVEL", then press the SET/DEMO key.
- 3 Turn the VOLUME/MULTI CONTROL knob to adjust the subwoofer level.
 - Adjustment is possible over the range from "- 6" to "+ 6".
- 4 Press the SET/DEMO key.

Balance adjustment

The balance of volumes from the left and right speakers can be adjusted as follows.

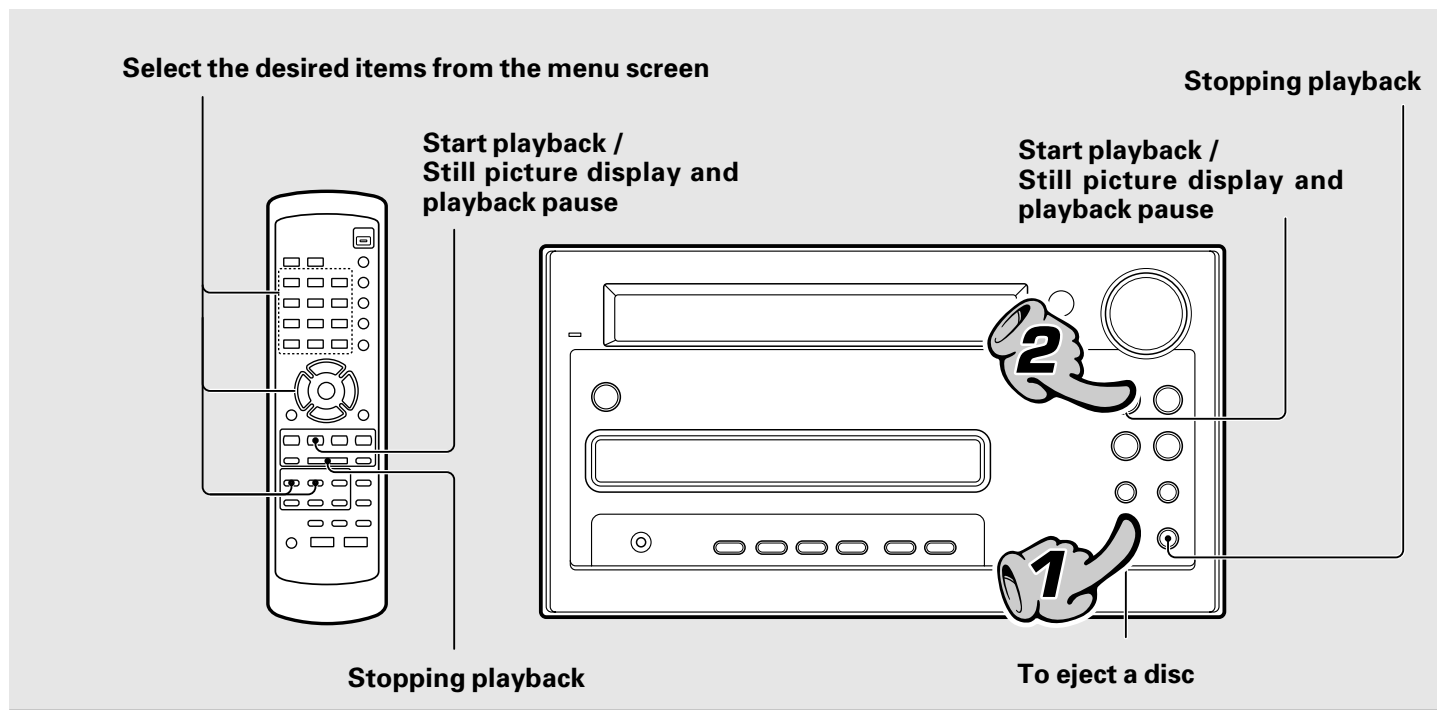
- 1 Press the MODE key.
- 2 Turn the VOLUME/MULTI CONTROL knob to select "BALANCE", then press the SET/DEMO key.
- 3 Adjust the left and right speaker balance by turning the VOLUME/MULTI CONTROL knob.



- 4 Press the SET/DEMO key.

The following procedure shows how to play a disc, such as a CD, VCD or DVD, from the beginning. When playing a VCD with P.B.C. (Play-Back Control) capability, please read "Menu playback of P.B.C.-compatible VCD". → 35

For details on the MP3 discs containing MP3 files, see "MP3 that can be played back with this equipment". → 36

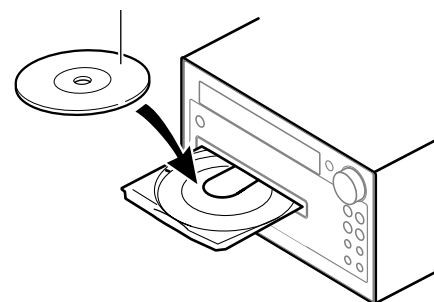


1. Load a disc.

- ① Press the DVD/CD key.
- ② Place a disc.
- ③ Press the DVD/CD key.

- Do not touch the played side of disc.
- Be sure to place a disc horizontally. Placing it with an inclination will result in malfunction.

The label side must be on top.



DVD/CD



With certain discs, playback starts now.

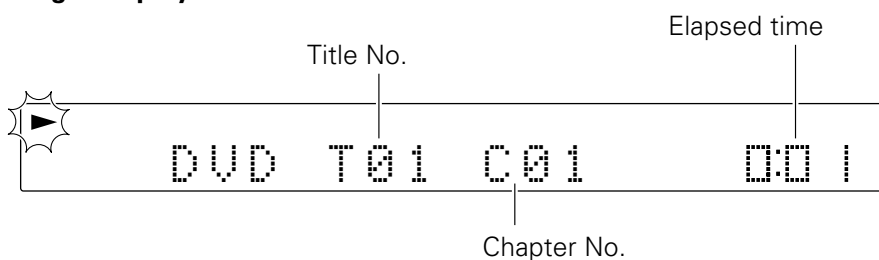
If a menu screen appears on the TV screen, select the desired items as described in steps 3.-② and ③ before playing the disc.

2. Start playback.

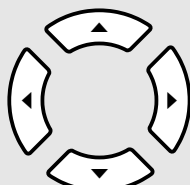
DVD/CD



During DVD playback :



FOLDER – SEARCH – FILE
TOP MENU MENU/P.B.C.



3. Select the desired items from the menu screen.

When a DVD VIDEO containing the recording of the top menu or menu is played, the top menu or menu is displayed. These menus allow you to select the position you want to play easily based on an interactive method.

The following operation procedure is the basic procedure. As the operation procedure may vary depending on the played software, be sure to read the manual provided with the software.

- ① Press the TOP MENU/FOLDER SEARCH key.
- ② Press a cursor key (◀ ▶ ▲ ▼) or numeric keys to select the scene to be played.
- ③ Press the ENTER key to start playback.

- When the **TOP MENU/FOLDER SEARCH** key is pressed again while the top menu is displayed during playback, the played position returns to the position where the key was pressed for the first time and playback restarts from there.
- When the **MENU/P.B.C./ FILE SEARCH** key is pressed, the menu is displayed. The operation is the same as that of the top menu.

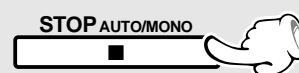
Start playback /

Still picture display and playback pause



- The TV screen shows "Pause" or "Still".
- When the "IPB Display" is set to On, the TV screen shows "Still (I)", "Still (P)" or "Still (B)" with every still picture of DVD VIDEO. → 38
- Press the **DVD/CD ▶/II** key to resume normal playback.

Stopping playback



- Pressing the **STOP ■ /AUTO/MONO** key in the middle of playback activates the resume function.
- When the resume function is activated, the playback stop position is stored in memory before stopping, so the playback can be resumed from the stop position when the **DVD/CD ▶/II** key is pressed later. (This function cannot be activated in playback of CD or random playback.)

To eject a disc

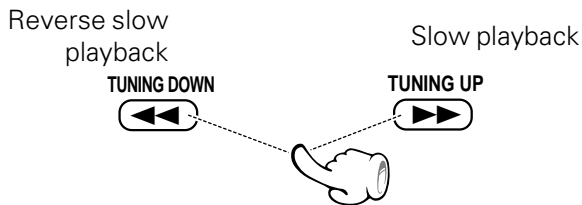
Main unit only



Slow playback and reverse slow playback DVD VCD

Press the ◀◀ key or ▶▶ key in still mode to select one of 5 available speeds.

Remote control unit only

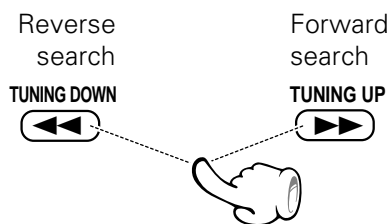


- When OSD is displayed, pressing the **ON SCREEN** key turns it off and shows the speed in place.
- Audio is not output during slow playback or reverse slow playback.
- Reverse slow playback is not available with VCD.
- Press the **DVD/CD ▶/II** key to resume normal playback.

Forward search and reverse search DVD VCD CD MP3

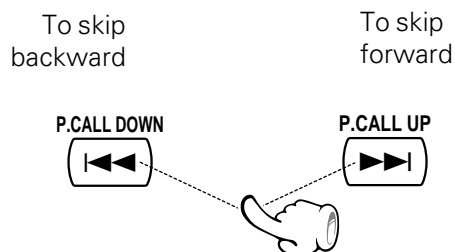
Press once during playback to initiate forward or reverse search at a low speed.

Remote control unit only



- The search speed can be selected from 5 speed steps. (With a MP3 disc, forward search and reverse search are possible only in a single speed.)
- When OSD is displayed, pressing the **ON SCREEN** key turns it off and shows the speed in place.
- Video may be disturbed during forward search or reverse search.
- Press the **DVD/CD ▶/II** key to resume normal playback.

Skipping a track, chapter, or file DVD VCD CD MP3

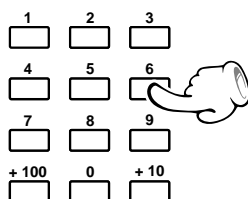


- A track is skipped and playback starts from the beginning of the skip destination track, chapter or file. (With DVD VIDEO, this operation is available only in the middle of play mode.)
- When the ◀◀ key is pressed once during playback, playback restarts from the beginning of the current track, chapter or file.
- With a VCD and P.B.C. is on, these buttons function as the ◀◀ (**Previous**) and ▶▶ (**Next**) key. → 35

Playing discs by selecting the title, chapter, track, folder or file DVD VCD CD MP3

Remote control unit only

Select the desired track No.



Press the numeric keys as shown below....

To select track 23

..... +10, +10, 3

To select track 40

..... +10, +10, +10, +10, 0

To select track 311 (MP3 disc only)

..... +100, +100, +100, +10, 1

- With a DVD VIDEO, when a number is input during playback, playback of the chapter having the same number as the input number in the same title starts. When a number is input in stop mode, playback the first chapter in the title having the same number as the input number starts.
- With a MP3 disc, playback starts with the beginning of the file having the same number as the input number.
- With a CD or VCD (when P.B.C. is off), playback starts with the beginning of the track having the same number as the input number.

Virtual Surround function DVD

When playing a DVD VIDEO recorded with Dolby Digital Surround audio (with 2 or more channels), powerful sound can be reproduced even when you use only two speakers.

Remote control unit only

① Start playback.



② Press the VIRTUAL SURROUND key.



Each press switch the modes as follows.

- ① "VIRTUAL SURR. OFF" (Cancel)
- ② "VIRTUAL SURR. 1"
- ③ "VIRTUAL SURR. 2"

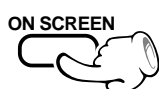
Basic OSD Operation DVD VCD CD MP3

Various operations can be performed by selecting the OSD icons on the TV screen using the cursor key (◀▶ ▲ ▼) on the remote.

The OSD cannot be displayed when DVD VIDEO, VCD is played by menu playback. It may also be unavailable with certain discs.

Select the "DVD/CD" input. → 24

1 Press the ON SCREEN key.



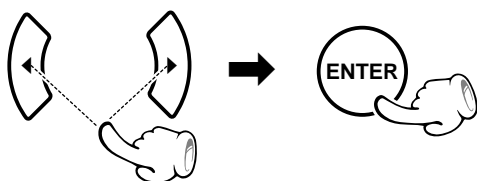
The OSD screen appears.



If the on-screen message or OSD is displayed outside the TV screen when using a widescreen TV or similar monitoring device, set the "OSD Position" setting to "Cinema". → 38

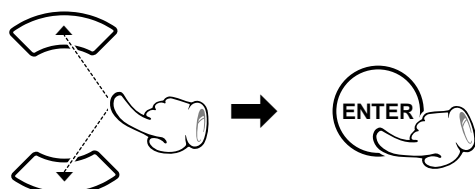
2 Select the item to be changed.

Press either cursor key (◀▶) to select an icon, then press the ENTER key.



3 Change the content of the selected item.

Press either cursor key (▲▼) to select a content, then press the ENTER key.



"MAIN" OSD :



- Only the "MAIN" OSD can be displayed when the button is pressed in stop mode. (The up and down arrows shown in the above figure are not displayed.)
- The "SOUND" OSD and "VISUAL" OSD can be displayed only in a play mode.
- When the key is pressed in a play mode, the OSD can be changed by pressing the cursor up/down (▲ ▼) key.

- Press the cursor (◀▶) key to move the cursor. (But the cursor cannot be moved to the icons of currently unavailable functions.)
- The OSD includes icons with a variety of functions. The displayed icons are variable depending on the player status and played disc.
- When the cursor is located on the left or right end, if you attempt to move the cursor toward the outside, the cursor will move to the opposite end.
- To clear the OSD display, move the cursor to the **EXIT** icon and press the **ENTER** key. (The same effect can also be obtained by pressing the **ON SCREEN** key.)

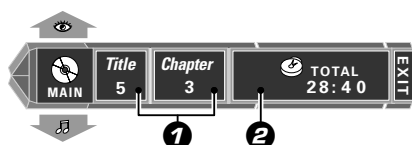


Icons on the TV screen DVD VCD CD MP3

Information related to the disc (title, chapter, time, voice language, subtitle language, angle, etc.) or the player can be displayed and changed as required. The icons displayed on the TV screen are as shown below.

During DVD VIDEO playback

"MAIN" OSD :



1 Title icon

Shows the title number in DVD VIDEO disc.

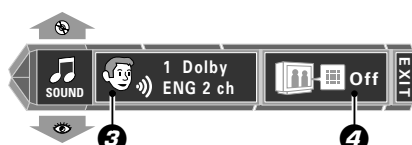
Chapter icon

Shows the chapter number in DVD VIDEO disc.

2 Time display icon

Shows the disc time.
Select to perform time search or change the time display. — 30

"SOUND" OSD :



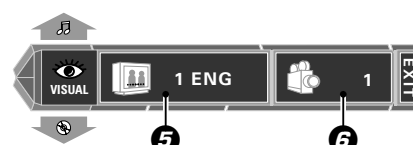
3 Audio icon

Shows the stream number, audio signal, audio language and number of audio channels.
Select to switch the audio language.

4 Cinema voice icon

Shows the on/off status of Cinema Voice. Select to switch Cinema Voice on or off.

"VISUAL" OSD :



5 Subtitle icon

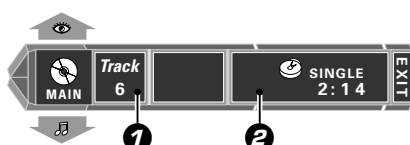
Shows the language used in subtitles. Select to change the subtitle language.

6 Angle icon

Shows the angle number.
Select to change the viewing angle.

During CD, VCD (when P.B.C. is off) playback

"MAIN" OSD :



1 Track icon

2 Time display icon

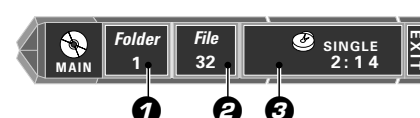
"SOUND" OSD :



3 Audio icon

During MP3 playback

"MAIN" OSD :



1 Folder icon

2 File icon

3 Time display icon

Time display for DVD/CD player DVD VCD CD MP3

Use the following procedure to switch the type of information shown by the time display shown in the OSD or player display. Time search is also available for specifying the position to start playback by inputting the time information.

The time display information type can also be changed using the TIME key.

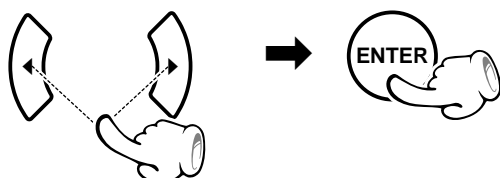
However, time search is not possible.

Remote control unit only

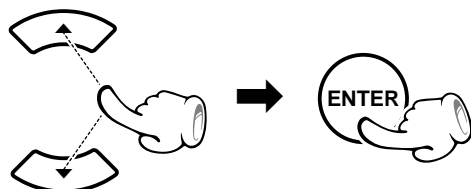
① Press the ON SCREEN key during playback



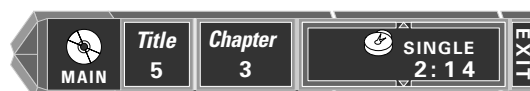
② Press either cursor key (◀ ▶) to select the time display icon, then press the ENTER key.



③ Press either cursor key (▲ ▼) to select the time display content, then press the ENTER key.



To perform time search, place the cursor in the time search time input field, enter the playing time with numeric keys and press the ENTER key.



- ① Elapsed play time of track or chapter.
- ② Remaining play time of track or chapter.
- ③ Elapsed play time of disc or title.
- ④ Remaining play time of disc or title.
- ⑤ " - - : - - : - - " : The time search target time can be input. (" - - : - - " is displayed with a CD or VCD.)

- Only information ① can be displayed with MP3 files.
- Only information ① or ② can be displayed in the program and random modes.
- Time search is not available in stop mode, during menu playback of a DVD VIDEO, VCD or with a DVD VIDEO which does not provide the time display. Time search is not available in the program and random modes.
- If P.B.C. is On, be sure to set it to Off. → 35

In regard to CD-TEXT CD

When a CD-TEXT compatible disc is played on this unit, the disc and track titles recorded in the disc are displayed automatically provided that they use alphanumeric characters.

When a title is too long to be accommodated in the display, press the DISPLAY key to scroll the displayed title so that the previously hidden characters be viewed.

Remote control unit only

(Press twice)

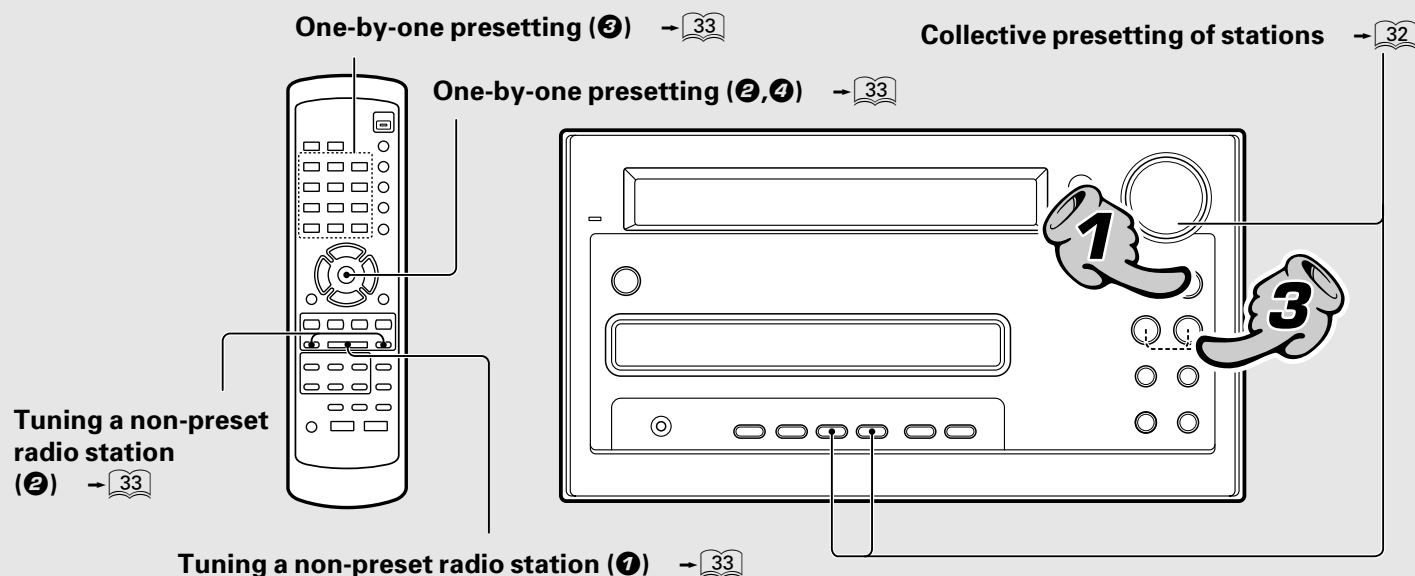


(When pressed during stop)

Scrolled disc title display

(When pressed during play)

Scrolled track title display



1. Select the tuner input.

Each press of the TUNER/BAND key switches the band as follows.



2. Preset a radio station in memory.

Collective presetting of stations → 32

Follow the procedure in "Collective presetting of stations" to preset automatically the tunable radio stations in your area.

- Once stations are stored by auto presetting, the present procedure is not required from the next time, unless you move of house or re-execute presetting of all tunable stations.

One-by-one presetting (Manual preset) → 33

A station can also be tuned even when it is not preset. For details, read "Tuning a non-preset radio station (Auto tuning, Manual tuning)".

3. Tuning (Preset Call).

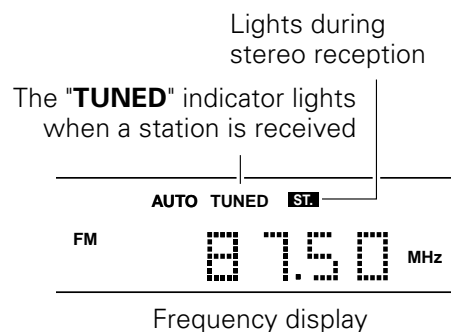
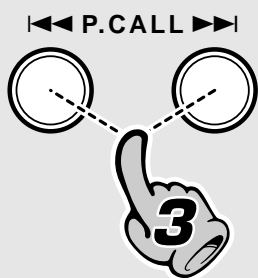
- If radio stations have already been stored with auto presetting or manual presetting, select a station using the ◀◀, ▶▶ key. Each press of the same key switches the preset stations in sequence.

When ▶▶ is pressed :

1 → 2 → 3 38 → 39 → 40 → 1

When ◀◀ is pressed :

40 → 39 → 38 3 → 2 → 1 → 40



- To select a preset station from the remote, use the ◀◀, ▶▶ key or numeric keys.

Collective presetting of stations

"AUTO MEMORY" Europe and U.K.
 "AUTO PERSET" Australia and other countries

Main unit only

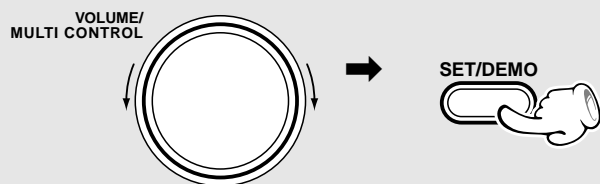
① Receive a broadcast.



② Press of the MODE key.



③ Turn the VOLUME/MULTI CONTROL knob to select "AUTO MEMORY" or "AUTO PERSET", then press the SET/DEMO key.



Up to 40 stations can be memorized.

- The previously preset frequencies are overwritten.
- When there are many stations and the intended station has not been preset, please also use "**One-by-one presetting (Manual preset)**". → 33

Europe and U.K.

AUTO MEMORY

Australia and other countries

AUTO PERSET

For Europe and U.K.

- For use of the RDS function, stations must be memorized by RDS auto presetting.
- RDS stations are given priority during auto presetting. If there is memory left after presetting, the receiver continues presetting regular FM stations.
- For memorizing of stations other than RDS stations (FM, AM), memorize the stations according to chapter "**One-by-one presetting (Manual preset)**". → 33

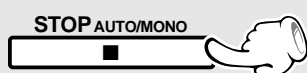
Tuning a non-preset radio station (Auto tuning, Manual tuning)

Select the tuning mode according to the radio wave receiving condition.

When the receiving condition is good: **AUTO** mode

When it is poor due to weak radio waves: **MANUAL** mode

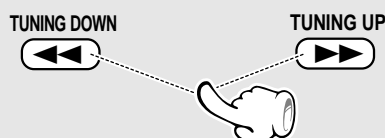
① Select the AUTO or MANUAL mode.



② Tune a station.

To decrease frequency

To increase frequency



- In **MANUAL** mode, FM stations are received in monaural.

Each press alternates the mode.

- ① "**AUTO**" : "**AUTO**" lit
- ② "**MANUAL**" : "**AUTO**" not lit

- Normally, use the **AUTO** (Auto tuning, stereo reception) mode.

Auto tuning mode :

Each press receives a new station.

Manual tuning mode :

Press repeatedly until the desired station is received.

One-by-one presetting (Manual preset)

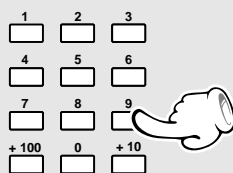
Remote control unit only

① Perform the procedure in "Tuning a non-preset radio station (Auto tuning, Manual tuning)" to receive the station to be preset.

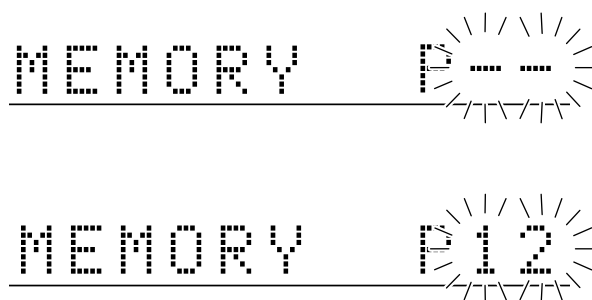
② Press the ENTER key during reception.



③ Select the desired preset number between 1 and 40 using the numeric keys on the remote control unit.



④ Press the ENTER key again.



Press the numeric keys as shown below....

12 +10, 2

20 +10, +10, 0

- Repeat steps ①~④ to preset other stations.
- If several stations are preset under the same number, the previous memory is replaced with the latest memory contents.

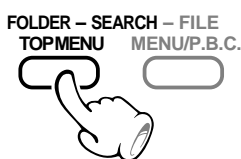
Menu playback of DVD DVD

When a DVD containing the recording of the top menu or menu is played, the top menu or menu is displayed.

These menus allow you to select the position you want to play easily based on an interactive method. The following operation procedure is the basic procedure. The functions vary depending on certain softwares.

Select the "DVD/CD" input → 24

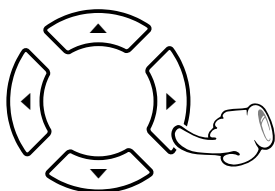
1 Press the **TOP MENU/FOLDER SEARCH** key.



- When the **TOP MENU/FOLDER SEARCH** key is pressed again while the top menu is displayed during playback, the played position returns to the position where the key was pressed for the first time and playback restarts from there.
- When the **MENU/P.B.C./FILE SEARCH** key is pressed, the menu is displayed. The operation is the same as that of the top menu.

2 Select the desired item from the menu screen.

① Press a cursor key (◀ ▶ ▲ ▼) or numeric keys to select the scene to be played.



② Press the **ENTER** key to start playback.



To display other menus, perform steps ① and ② above.



- Step ② - ② is not required if numeric keys are used to select the item.
- When the menu has a hierarchical structure, the menu at the lower level appears.

Menu playback of P.B.C.-compatible VCD VCD

When a P.B.C. (PlayBack Control) capable VCD is played with P.B.C. on, the menu is displayed. Perform operation according to the procedure indicated by the menu. (For details on the operation method and control keys, refer to the manual provided with the played software.)

Main control keys used in VCD playback, and examples of indications

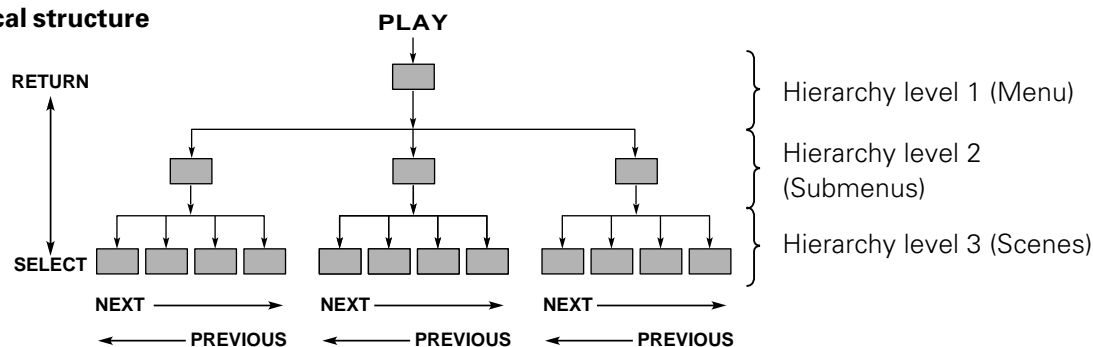
Indication on software jacket	ENTER	RETURN	◀◀	▶▶
Control key on the player	▶ (Select)	⌂ (Return)	◀◀ (Previous)	▶▶ (Next)

- The indication on the jacket is variable depending on the software.

Hierarchical structure of VCD menus :

When a P.B.C.-compatible VCD containing menus is played and an item is selected in the displayed menu, a menu with more detailed items may sometimes be displayed. Such a structure in which multiple menus are distributed in different levels and interconnected is referred to as the hierarchical structure. In this structure, the target scene can be reached by repeatedly selecting items in multiple menus.

Example of hierarchical structure



To advance in the hierarchy :

When an item is selected in the menu using the **ENTER (Select)** key or numeric keys, you can advance to the menu at the level immediately below the current level. When the selected item is a [scene], the scene will be played back.

To return in the hierarchy :

You can return to the level immediately above the current level every time you press the **RETURN** key.

- When there are multiple menus (scenes) in a hierarchy level, they can be switched over by pressing the **◀◀ (Previous)** key or **▶▶ (Next)** key.

Switching P.B.C. On and Off

- 1 Insert the desired VCD in the DVD/CD player.
- 2 Select the "DVD/CD" input.
- 3 If the DVD/CD player is playing a disc, stop it.
- 4 Press the **MENU/P.B.C./FILE SEARCH** key.



Each press switch the modes as follows.

P.B.C. on : The TV screen shows "P.B.C. On" and the P.B.C.-compatible VCD is played according to P.B.C.

P.B.C. off: The TV screen shows "P.B.C. Off" and the P.B.C.-compatible VCD is played in normal playback without P.B.C.

This unit is capable of playing back the music files recorded in the MP3 audio compression format on CD-R/RW discs. This unit may also be incapable of playing certain CD-R/RW discs depending on their properties, recording conditions, etc.

- Please set up the transfer bit rate setting for the compression software when compressing MP3 files as follows:

MP3 file: 128kbps recommended (32 kbps-320 kbps)

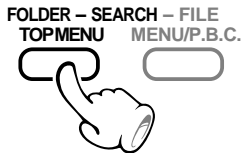
- This unit is compatible with 32kHz, 44.1kHz (recommended) and 48 kHz sampling frequencies.
- A maximum of 999 folders or a maximum of 999 files can be stored on a single media.
- There are cases where it is not possible to save folders in the desired sequence depending on the software being used.
- Usable formats : ISO 9660 level 1 (excluding expanded formats)
- This unit can play back only the closed sessions.
- This unit is compatible with multi-session discs.

Searching a desired folder/file by its title MP3

MP3 files can be searched based on the title of the file or the folder containing the file.

Select the "DVD/CD" input →  24

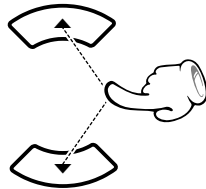
1 Press the TOP MENU/FOLDER SEARCH key.



Blinks

- If file search is required, press the **MENU/P.B.C./FILE SEARCH** key instead.

2 Press the cursor up/down key (▲ ▼) to select the title of the desired folder or file.



BITTERPI



- To abort operation, press the TOP MENU/FOLDER SEARCH key again.

3 Start playback.



- In folder search, playback begins with the file with the minimum file number in the searched folder.
- In file search, playback begins with the searched file.

"MAIN" Setting

The setups according to the connected TV, viewing restriction, OSD position, on-screen messages and IPB display can be set.

When "MAIN" is selected in "SET UP MENU":

"Rating" Setting

Sets the viewing restriction of DVD VIDEO. (This functions only with DVD VIDEO discs compatible with viewing restriction.)

"TV Aspect" Setting

Sets the picture aspect ratio according to that of the connected TV.

"TV Mode" Setting

This setting is required when the aspect ratio of the connected TV is 4:3.

"OSD Position" Setting

Sets the position of the OSD (On-Screen Display).

"On Screen Message" Setting

Switches the on-screen message on/off.

"IPB Display" Setting

Switches the IPB display on/off.

Select the "DVD/CD" input. → 24

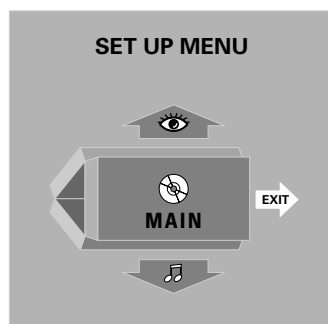
1 Select "SET UP MENU MAIN".

Press in stop mode

1 Press the SET UP key.



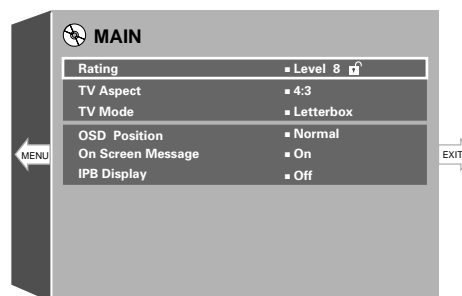
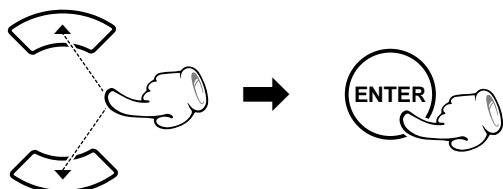
2 Press the ENTER key.



- Press the **RETURN** key or cursor (▶) key while the "SET UP MENU" menu is displayed to exit from the setup mode.
- If the resume function is active, pressing the **SET UP** key cancels it.

2 Select the item to be set.

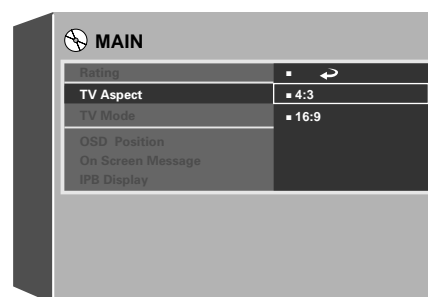
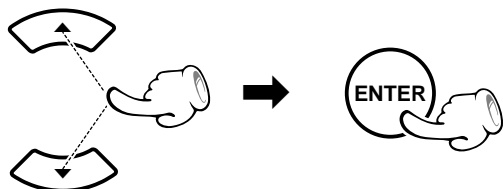
Press either cursor (▲ ▼) key to select the item to be set, then press the ENTER key.



- Press the cursor (▶) key while a setting menu is displayed to exit from the setup mode. (Pressing the **RETURN** key or cursor (◀) key returns to the "SET UP MENU".

3 Change the content of the selected item.

Press either cursor key (▲ ▼) to change the setting, then press the ENTER key.



- Select "↩" and press the **ENTER** key to return to the setting menu. (Pressing the **RETURN** key or cursor (◀) key also returns to the previous setting menu.)

Function items	Setting items
"Rating" (When you attempt to change the rating level, the password input screen will be displayed. → 40)	"8 No Limit" : Select to enable playback of any DVD discs whether their targets are adults, general public or children. "7" to "1" : When DVD software containing the recording of restriction level (an adult-oriented disc or a disc including violence), playback is restricted in accordance with the restriction level. "0 Lock All" : Select to inhibit any DVD. Use this setting for example when you want to inhibit playback of an adult-oriented DVD which does not contain the restriction information. "Change Password" : Select to change the viewing restriction password which has been registered before. (This item cannot be selected unless a password has already been registered.) "Temporary Unlocked" : Select to disable temporarily the viewing restriction which has been set previously. (This item cannot be selected unless a password has been set previously.)
"TV Aspect"	"4 : 3" : Select when the connected TV uses the conventional aspect ratio of 4:3. "16 : 9" : Select when the connected TV uses the wide-screen aspect ratio of 16:9. Widescreen video will be reproduced in full screen. (Set the screen mode of the TV to the full mode.)
"TV Mode"	"Pan & Scan" : Select to play widescreen software with pan & scan specification on a pan & scan screen (screen with the left and/or right edges cut off). When widescreen software without pan & scan specification is played with this setting, it will be reproduced in the Letterbox screen mode. "Letterbox" : Widescreen software without pan & scan specification is reproduced in the Letterbox screen (screen with black bands on the top and bottom).
"OSD Position"	"Normal" : Select to display the OSD and messages on the top of the TV screen. Usually select this setting. "Cinema" : Select to display the OSD and messages on the lower part of the TV screen. Select this setting when the OSD or messages are deviated outside the TV screen.

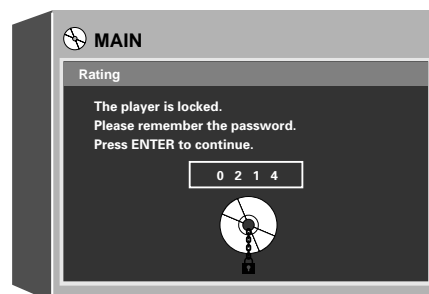
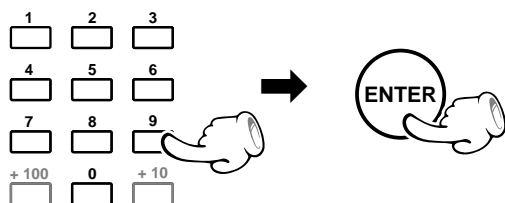
Function items	Setting items
"On Screen Message"	"On" : Select to display on-screen messages. "Off" : Select to not to display on-screen messages.
"IPB Display"	"On" : Select to view the IPB display. "Off" : Select to not to view the IPB display.

If the power is turned off while the setup screen remains displayed after setting changes, the changes will be invalid. Be sure to close the setup screen before turning power off.

Input of Password

When no password has been set previously :

- Input the desired password with numeric keys, then press the ENTER key.

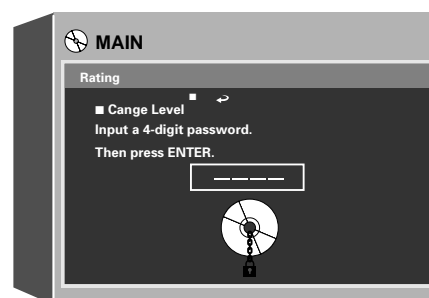
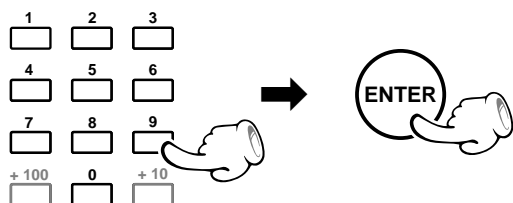


- Note the password in a memo and retain it in a safe place before pressing the ENTER key.

- The password input screen changes to the confirmation screen, and the input password is shown on the TV screen.
- The password is required when setting the viewing restriction.

When a password has already been set :

Input the desired password with numeric keys, then press the ENTER key.



If you select "Change Password", the screen for input of the new password will open. Input the new password using the numeric keys and press the ENTER key. When the password confirmation screen appears, note the password in a memo and retain it in a safe place then pressing the ENTER key.

"SOUND" Setting

"SOUND" is to be selected when you want to set the audio output method when system components are connected using the digital audio output connector of the player. Also select "SOUND" to set audio output during DVD or VCD search and dynamic range control function.

When "SOUND" is selected in "SET UP MENU":

"Digital Audio PCM Down Conversion" Setting

Switches on/off the down-sampling conversion for the digital signal output with a high sampling rate.

"Digital Audio Dolby Digital" Setting

Sets the Dolby Digital output.

"Digital Audio DTS" Setting

Sets the DTS output.

"Digital Audio MPEG" Setting

Sets the MPEG output.

"Audio During Search" Setting

Switches on/off the audio during search.

"Dynamic Range Control" Setting

Switches the dynamic range control function.

Select the "DVD/CD" input. → 24

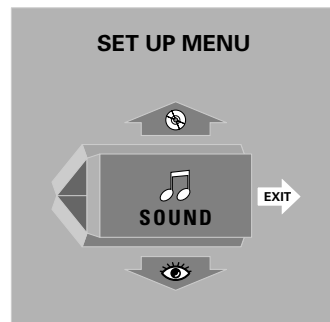
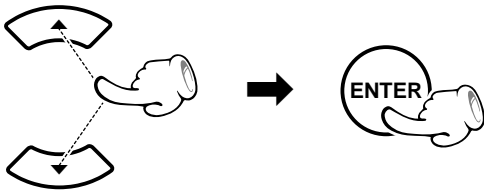
1 Select "SET UP MENU SOUND".

Press in stop mode

① Press the SET UP key.



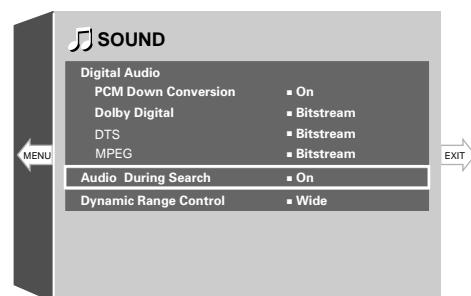
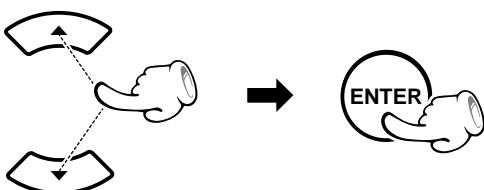
② Press either cursor (▲ ▼) key to select "SET UP MENU SOUND", then press the ENTER key.



- Press the **RETURN** key or cursor (▶) key while the "SET UP MENU" menu is displayed to exit from the setup mode.

2 Select the item to be set.

Press either cursor (▲ ▼) key to select the item to be set, then press the ENTER key.

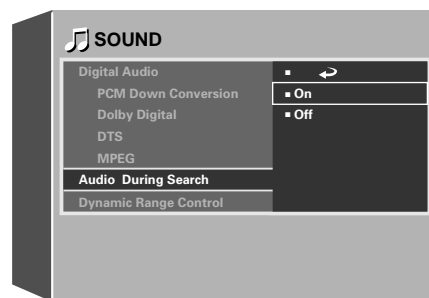
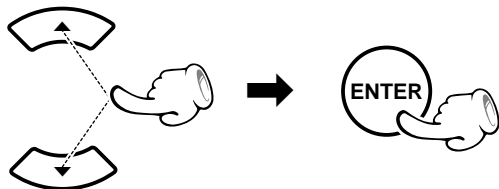


- Press the cursor (▶) key while a setting menu is displayed to exit from the setup mode. (Pressing the **RETURN** key or cursor (◀) key returns to the "SET UP MENU".

Continued on next page

3 Change the content of the selected item.

Press either cursor key (▲ ▼) to change the setting, then press the ENTER key.



- Select "↩" and press the **ENTER** key to return to the setting menu. (Pressing the **RETURN** key or cursor (◀) key also returns to the previous setting menu.)

Function items	Setting items
"Digital Audio PCM Down Conversion"	<p>"On" : Select to down-convert the signal to 44.1 kHz/16-bit PCM signal. Select this setting when the connected AV amplifier is incompatible with 96 kHz digital input.</p> <ul style="list-style-type: none"> ● The analog output signals are also converted accordingly. <p>"Off" : Select to skip down conversion. Select this setting when the connected AV amplifier is compatible with 96 kHz digital input. However, if the disc inhibits the 96 kHz digital output, the signal is down-converted even when this setting is selected.</p>
"Digital Audio Dolby Digital" *1	<p>"Bitstream" : The signal is output as a bitstream. Select when connecting a component containing Dolby Digital decoder.</p> <p>"PCM" : The signal is converted onto 48 kHz (2ch.) PCM signal before being output. Select when connecting a component without Dolby Digital decoder.</p>
"Digital Audio DTS" *2	<p>"Bitstream" : The signal is output as a bitstream. Select when connecting a component containing DTS decoder.</p> <p>"Off" : No digital signal is output.</p>
"Digital Audio MPEG"	<p>"Bitstream" : The signal is output as a bitstream. Select when connecting a component containing MPEG decoder.</p> <p>"PCM" : The signal is converted onto 48 kHz (2ch.) PCM signal before being output. Select when connecting a component without MPEG decoder.</p>

No digital signal is output when an MP3 file is played back.

*1 Set to "PCM" when connecting the equipment other than a Dolby Digital decoder. If this item is set to "Bitstream", loud noise may be produced and speakers may be damaged.

*2 Noise may interfere with the speaker output if the player is connected to a piece of equipment which does not incorporate an DTS decoder. Never connect the player to equipment without a built-in DTS decoder.

Function items	Setting items
"Audio During Search"	"On" : Select to output audio during search. "Off" : Select to mute audio during search.
"Dynamic Range Control"	"Wide" : Select to reproduced the audio at the level recorded in the disc. "Normal" : Select to reduce the difference between the maximum and minimum volume levels. "Midnight" : Select to further reduce the difference between the maximum and minimum volume levels. This setting is suitable for low-level listening in late at night, etc.

If the power is turned off while the setup screen remains displayed after setting changes, the changes will be invalid. Be sure to close the setup screen before turning power off.

"VISUAL" Setting

Select "VISUAL" when you want to change the language used to display the menu screens, language use in menus on the disc, audio language, subtitle language, etc. (If the selected language is not used in a specific disc, the language specified as the priority language for the disc will be used.) Also select "VISUAL" to set the still mode and video format conversion system.

When "VISUAL" is selected in "SET UP MENU":

"Player Menu Language" Setting

Sets the language used to display the menu screens of the player.

"Disc Menu Language" Setting

Sets the language used to display the menu screens of the disc.

"Audio Language" Setting

Sets the language of the disc audio.

"Subtitle Language" Setting

Sets the language of the disc subtitles.

"Still Mode" Setting

Reduces blur in still images.

"NTSC → PAL" Setting

Switches if the signal from an NTSC format disc is to be converted into PAL or not.

Select the "DVD/CD" input. → 24

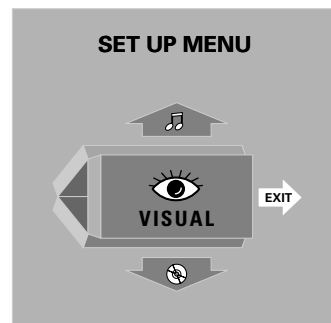
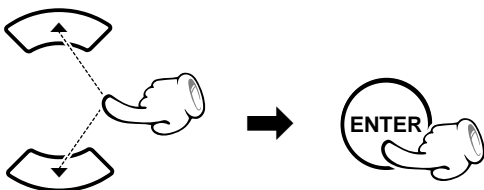
1 Select "SET UP MENU VISUAL".

Press in stop mode

① Press the SET UP key.



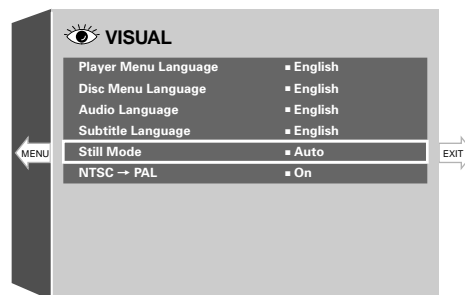
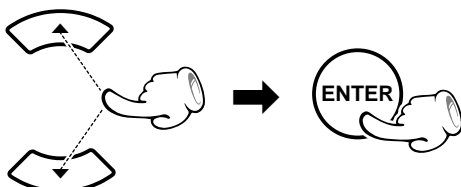
② Press either cursor (▲ ▼) key to select "SET UP MENU VISUAL", then press the ENTER key.



- Press the **RETURN** key or cursor (▶) key while the "SET UP MENU" menu is displayed to exit from the setup mode.

2 Select the item to be set.

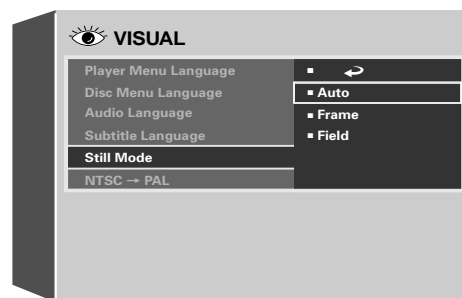
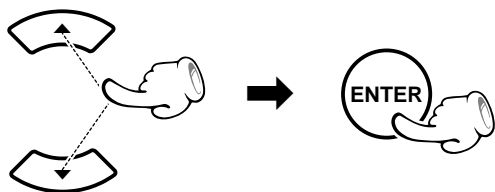
Press either cursor (▲ ▼) key to select the item to be set, then press the ENTER key.



- Press the cursor (▶) key while a setting menu is displayed to exit from the setup mode. (Pressing the **RETURN** key or cursor (◀) key returns to the "SET UP MENU".

3 Change the content of the selected item.

Press either cursor key (▲ ▼) to change the setting, then press the ENTER key.



- Select "↩" and press the **ENTER** key to return to the setting menu. (Pressing the **RETURN** key or cursor (◀) key also returns to the previous setting menu.)
- When "**Other** _ _ _ _" is selected, enter the code number with the numeric keys then press the **ENTER** key.

Function items	Setting items
" Player Menu Language "	<p>"English" : Select to display menus in English.</p> <p>"French" : Select to display menus in French.</p> <p>"Spanish" : Select to display menus in Spanish.</p> <p>"German" : Select to display menus in German.</p> <p>"Italian" : Select to display menus in Italian.</p> <p>"Japanese" : Select to display menus in Japanese.</p> <p>"Chinese" : Select to display menus in Chinese.</p> <p>"Taiwanese" : Select to display menus in traditional Chinese letters.</p>
" Disc Menu Language " (The languages displayed with this setting item are variable depending on country and area.)	<p>"English" : Select to display menus in English.</p> <p>"French" : Select to display menus in French.</p> <p>"Spanish" : Select to display menus in Spanish.</p> <p>"German" : Select to display menus in German.</p> <p>"Italian" : Select to display menus in Italian.</p> <p>"Chinese" : Select to display menus in Chinese.</p> <p>"Other _ _ _ _" : Select to specify the language using a code No. listed in the "Disc Language Code Table". → 47</p>
" Audio Language " (The languages displayed with this setting item are variable depending on country and area.)	<p>"Original" : Select to reproduce audio in the language specified as the priority language by the disc.</p> <p>"English" : Select to reproduce audio in English.</p> <p>"French" : Select to reproduce audio in French.</p> <p>"Spanish" : Select to reproduce audio in Spanish.</p> <p>"German" : Select to reproduce audio in German.</p> <p>"Italian" : Select to reproduce audio in Italian.</p> <p>"Chinese" : Select to reproduce audio in Chinese.</p> <p>"Other _ _ _ _" : Select to specify the language using a code No. listed in the "Disc Language Code Table". → 47</p>

Function items	Setting items
"Subtitle Language" (The languages displayed with this setting item are variable depending on country and area.)	<p>"Auto" : The subtitle language is selected automatically according to the "Audio language" setting.</p> <p>Case in which subtitles are not displayed: When the voices are reproduced in the language selected with "Audio language", the subtitles are not displayed.</p> <p>Case in which subtitles are displayed: When the voices cannot be reproduced in the language selected with "Audio language", subtitles are displayed in the language selected with "Audio language".</p> <p>"English" : Select to display menus in English. "French" : Select to display menus in French. "Spanish" : Select to display menus in Spanish. "German" : Select to display menus in German. "Italian" : Select to display menus in Italian. "Chinese" : Select to display menus in Chinese. "Other – – –" : Select to specify the language using a code No. listed in the "Disc Language Code Table". → 47</p>
"Still Mode"	<p>"Auto" : Frame still and field still pictures are switched automatically. Usually select this setting.</p> <p>"Frame" : Select to display still pictures in a higher picture quality. (As the field and still pictures are displayed alternately, the picture may blur accordingly.)</p> <p>"Field" : Select to display still pictures without blur. (As the video information is halved compared to the frame pictures, the picture quality deteriorates accordingly.)</p>
"NTSC → PAL"	<p>"On" : Select to enable conversion from NTSC to PAL. "Off" : Select to disable conversion from NTSC to PAL.</p>

If the power is turned off while the setup screen remains displayed after setting changes, the changes will be invalid. Be sure to close the setup screen before turning power off.


Disc Language Code Table

Cord No.	Language
6565	Afar
6566	Abkhazian
6570	Afrikaans
6577	Amharic
6582	Arabic
6583	Assamese
6588	Aymara
6590	Azerbaijani
6665	Bashkir
6669	Byelorussian
6671	Bulgarian
6672	Bihari
6678	Bengali; Bangla
6679	Tibetan
6682	Breton
6765	Catalan
6779	Corsican
6783	Czech
6789	Welsh
6865	Danish
6869	German
6890	Bhutani
6976	Greek
6978	English
6979	Esperanto
6983	Spanish
6984	Estonian
6985	Basque
7065	Persian
7073	Finnish
7074	Fiji
7079	Faroese
7082	French
7089	Frisian
7165	Irish
7168	Scots Gaelic
7176	Galician
7178	Guarani
7185	Gujarati
7265	Hausa
7273	Hindi
7282	Croatian
7285	Hungarian
7289	Armenian
7365	Interlingua
7378	Indonesian
7383	Icelandic
7384	Italian
7387	Hebrew

Cord No.	Language
7465	Japanese
7473	Yiddish
7487	Javanese
7565	Geogian
7575	Kazakh
7576	Greenlandic
7577	Cambodian
7578	Kannada
7579	Korean
7583	Kashmiri
7585	Kurdish
7589	Kirghiz
7665	Latin
7678	Lingala
7679	Laothian
7684	Lithuanian
7686	Latvian; Lettish
7771	Malagasy
7773	Maori
7775	Macedonian
7776	Malayalam
7778	Mongolian
7779	Moldavian
7782	Marathi
7783	Malay
7784	Maltese
7789	Burmese
7865	Nauru
7869	Nepali
7876	Dutch
7879	Nowegian
7982	Oriya
8065	Punjabi
8076	Polish
8083	Pashto; Pushto
8084	Portuguese
8185	Quechua
8277	Rhaeto-Romance
8279	Romanian
8285	Russian
8365	Sanskrit
8368	Sindhi
8372	Serbo-Croatian
8373	Singhalese
8375	Slovak
8376	Slovenian
8377	Samoaian
8378	Shona
8379	Somali

Cord No.	Language
8381	Albanian
8382	Serbian
8385	Sundanese
8386	Swedish
8387	Swahili
8465	Tamil
8469	Telugu
8471	Tajik
8472	Thai
8473	Tigrinya
8475	Turkmen
8476	Tagalog
8479	Tonga
8482	Turkish
8484	Tatar
8487	Twí
8575	Ukrainian
8582	Urdu
8590	Uzbek
8673	Vietnamese
8679	Volapük
8779	Wolof
8872	Xhosa
8979	Yoruda
9072	Chinese
9085	Zulu

RDS is a system that transmits useful information (in the form of digital data) for FM broadcasts along with the broadcast signal. Tuners and receivers designed for RDS reception can extract the information from the broadcast signal for use with various functions, such as automatic display of the station name.

For reception of RDS stations, the RDS auto presetting function must be used to preset the stations. →  32

This unit is equipped with the following functions utilizing RDS data:

PS (Program Service Name) Display : (See below.)

When an RDS broadcast is received, the station name is automatically displayed.).

PTY (Program Type Identification) Search: → 49

The tuner automatically searches for a station which is currently broadcasting a specified program type (genre).

The "RDS" indicator lights up when an RDS broadcast (signal) is received.



- Some functions may not be provided or be given different names depending on countries or areas.

To switch the display contents

Press the DISPLAY key.

Pressing the DISPLAY key changes the display contents.



Display mode priority ranking

PS (Program Service Name) Display :

BBC

When an RDS broadcast is received, the station name is automatically displayed.

If no PS data was sent, "NO PS" is displayed.

Preset number display :

TUNER

P12

Searching for a desired program type (PTY search)

By specifying the type of program (genre) you want to listen to, the tuner automatically searches for a station which is currently broadcasting a program of the specified type.
Under certain receiving conditions, it may take more than 1 minute to complete the search.

For reception of RDS stations, the RDS auto presetting function must be used to preset the stations. → 32

Set the reception band to FM.

1 Activate the PTY search mode.

Press the PGM/PTY key.



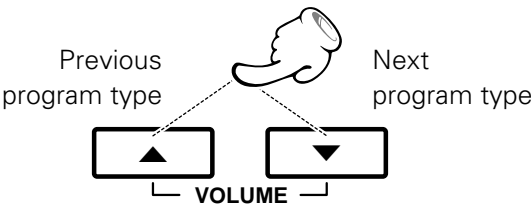
POP M

When an RDS broadcast is received, the program type is shown on the display. If no PTY data is available, or if the station is not an RDS station, "NONE" is displayed.

2 Select the program type you desire.

Use the program type table on the right for your convenience.

To select using the VOLUME keys.



The VOLUME keys let you select from all 29 program types in the order shown at right. Press the key and release it when the desired type is displayed.

Program type table

	Program Type Name	Display
▲ ▲ ▼ ▼	Pop Music	POP M
	Rock Music	ROCK M
	Easy Listening Music	EASY M
	Light Classical	LIGHT M
	Serious Classical	CLASSICS
	Other Music	OTHER M
	News	NEWS
	Current Affairs	AFFAIRS
	Information	INFO
	Sport	SPORT
	Education	EDUCATE
	Drama	DRAMA
	Culture	CULTURE
	Science	SCIENCE
	Varied	VARIED
	Weather	WEATHER
	Finance	FINANCE
	Children's programs	CHILDREN
	Social Affairs	SOCIAL
	Religion	RELIGION
	Phone In	PHONE IN
	Travel	TRAVEL
	Leisure	LEISURE
	Jazz Music	JAZZ
	Country Music	COUNTRY
	National Music	NATION M
	Oldies Music	OLDIES
	Folk Music	FOLK M
	Documentary	DOCUMENT

3 Start the search.

Press the PGM/PTY key.



To change to a different program type :

Repeat steps 1, 2, 3.

- No sound is heard while "ROCK M" is blinking.
- If the desired program type cannot be found, "NO PROGRAM" is displayed, then after several seconds the display returns to the original display.
- If the desired program type is found, that program is received. The program type display changes temporarily to the preset number display, and then to the station name display.

EXAMPLE: Searching for a Rock Music broadcast.

Display while searching

Blinks



Program type name display.

When a station is received.

Goes off



Station name display.

Listening to the desired sequence (program playback) VCD CD

Desired tracks in a disc can be programmed in the desired order and played back.
(Program playback is not available with DVD VIDEO.)

Select the "DVD/CD" input. →  24

1 Check that the unit is in the stop mode.

If is in play mode

Press the STOP ■/AUTO/MONO key.



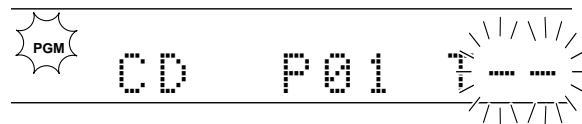
- If P.B.C. is On, be sure to set it to Off. →  35

2 Light the "PGM" indicator.

PGM/PTY

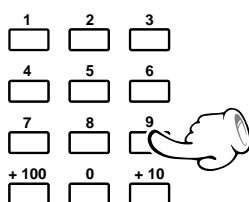


Blinks

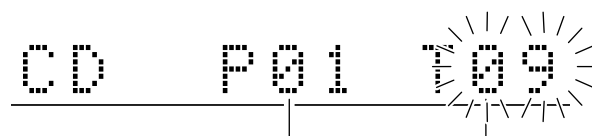


3 Enter track Nos. in the order you want to play them.

① Select a track number using numeric keys.



Blinks



Program position of the track
to be selected next.

Selection of
tracks

Press the numeric keys as shown below....

To enter track No. 12 ... +10, 2

To enter track No. 20 ... +10, +10, 0

② Press the SET key.



③ Repeat steps ① and ②.

4 Start playback.

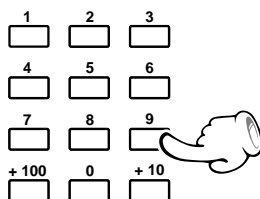


- Tracks will be played in the order they were programmed (following the program numbers).
- When the ◀▶ key is pressed during play, the program will jump to the preceding or the following track respectively.
- When the ◀◀ key is pressed once during playback, the play position returns to the beginning of the current track being played.

To add a track to an existing program

- 1 Select the track number to be added with the numeric keys.

Press in stop mode



- 2 Press the SET key.



Blinks



Press the numeric keys as shown below....

To enter track No. 12 ... +10, 2

To enter track No. 40 ... +10, +10, +10, +10, 0

- Up to 32 tracks can be programmed. When "PGM FULL" is displayed, no more tracks can be programmed.
- When a track No. is entered, the track will be added to the end of the existing program.

To clear a programmed track

Press in stop mode

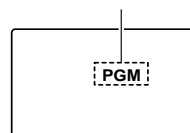


To clear the entire program

Press in stop mode



Goes off



- Each time the key is pressed, the last track in the program is cleared.



- The program mode is cancelled when the unit is turned off or the programmed disc is ejected. The set program is cleared entirely at this time.

Repeated playback

Repeat playback allows you to play the desired audio or video repeatedly.

With some DVDs and VCDs, the partitions in the recording are not related with the track number assignment. As a result, repeat playback may not be available with such software. (Repeat playback may also be unavailable during playback of DVD or P.B.C. playback of VCD.)

Select the "DVD/CD" input. →  24

To repeat a disc DVD VCD CD MP3

❶ If the "PGM" indicator is lit, turn it off by pressing the PGM/PTY key in stop mode to cancel the program mode.

❷ Start playback.



❸ Press the REPEAT key repeatedly until "C" is displayed.



- Title repeat occurs with a DVD disc.

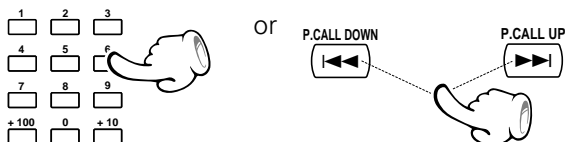
To stop repeated playback

Press the REPEAT key repeatedly until any repeat-related indicator disappears or press the STOP■/TUNING MODE key.

To repeat a single track DVD VCD CD MP3

❶ If the "PGM" indicator is lit, turn it off by pressing the PGM/PTY key in stop mode to cancel the program mode.

❷ Select the track number to be repeated using the numeric keys or the ◀◀ or ▶▶ key. The CD playback of the selected track will start.



❸ During playback, press the REPEAT key repeatedly until "C1" is displayed.



- Chapter repeat occurs with a DVD disc.

To stop repeated playback

Press the REPEAT key repeatedly until any repeat-related indicator disappears or press the STOP■/TUNING MODE key.

To repeat selected tracks VCD CD

- 1 Program the desired tracks by performing the procedure in "Listening to the desired sequence (program playback)" until step 3. → 52

- 2 Start playback.



- 3 Press the REPEAT key to select "C".

**To stop repeated playback**

Press the REPEAT key repeatedly until any repeat-related indicator disappears or press the STOP/TUNING MODE key.

A-B repeat playback DVD VCD CD

A-B repeat playback allows you to play a specified section repeatedly. (A-B repeat playback may sometimes be unavailable during P.B.C. playback of DVD or VCD.)

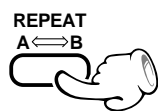
If the "PGM" indicator is lit, turn it off by pressing the PGM/PTY key in stop mode to cancel the program mode.

- 1 Start playback.



- 2 Press the key at the point you want to start repeating.

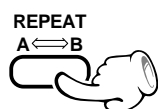
Point A



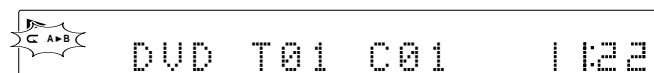
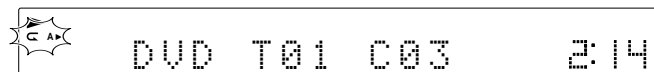
Start point A is specified.

- 3 Press the key again at the point you want to end repeating.

Point B



End point B is specified and repeated playback of the section between A and B starts.

**To stop repeat playback**

Press the REPEAT A B key again.

Playing tracks in a random order (random playback) VCD CD

As the titles each time are selected randomly, the music can be enjoyed without getting tired of it.

Select the "DVD/CD" input. →  24

- 1 If the "PGM" indicator is lit, turn it off by pressing the PGM/PTY key in stop mode to cancel the program mode.



- 2 Start random playback.



- If P.B.C. is On, be sure to set it to Off. →  35



- Playback stops after each title has been played once.
- The random playback can also be repeated by pressing the **REPEAT** key.

To select another track in the middle of playing one

Press the **▶▶|** key.



- Pressing the **||◀◀** key returns the playback position to the beginning of the track being played.

To cancel random playback

Press the **RANDOM** or **STOP ■/AUTO/MONO** key during random playback.



- Pressing the **RANDOM** key continues playback of tracks in the order they are recorded, while pressing the **STOP ■/AUTO/MONO** key stops playback.

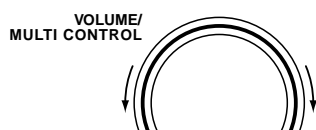
Connect the related equipment under reference to "Connection of external source component" → 11

① Press the AUX key.



② Play the connected equipment.

③ Adjust the volume.



Each press switch the modes as follows.

- ① "CD-R" (Analog)
- ② "AUX" (Analog)

Adjusting the AUX Input Level

This adjusts the input level for the external equipment (video deck etc.) connected to the AUDIO CD-R IN(AUDIO AUX IN) terminal. Adjust so that the volume of the AUX input source sounds at an equivalent level to the CD. (Main unit operation only)

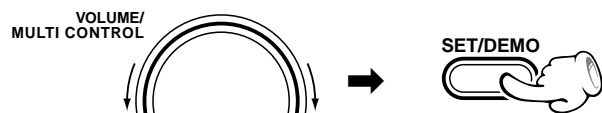
① Press the AUX key. (Select the "CD-R" or "AUX" input)



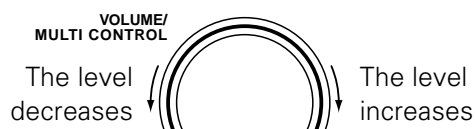
② Press the MODE key.



③ Turn the VOLUME/MULTI CONTROL knob to select "INPUT LEVEL", then press the SET/ DEMO key.



④ Adjust the input level.



⑤ Set it.



Each press switch the modes as follows.

- ① "CD-R" (Analog)
- ② "AUX" (Analog)

INPUT LEVEL

CDR INPUT+1

Input level

- Adjustment is possible over the range from – 4 to + 3.

The timer makes it possible to play a CD, receive radio automatically in the specified time zone. The O.T.T. timer works only once when it is activated, the SLEEP timer switches power off (Standby mode) automatically even after you fall asleep, and the PROG. timer provides two timer programs which work every day once they are activated.

Sleep timer (SLEEP)

The unit is turned OFF automatically after the specified period has elapsed.

Setting the O.T.T. timer → 59

Playback of the selected input source starts at the specified time, and the unit is switched off after one hour. This timer operates only once directly after setting.

Timer playback (PROG.1, PROG.2) → 60

Playback of the selected input source starts at the specified time.

AI timer playback (PROG.1, PROG.2) → 60

When timer playback starts, the volume level increases gradually until a certain level is reached.

Sleep timer (SLEEP)

Set the number of minutes after which the unit is to be turned OFF.

Connect the related equipment under reference to "System connection" →  6 ~  11

Press the SLEEP key during CD playback or during radio reception.



- Each press increases the set time by 10 minutes. The sleep timer can be set up to about 90 minutes.

10 → 20 → 30 70 → 80 → 90 → Cancel



Lights



SLEEP

10

Duration for sleep timer

- The unit is turned OFF automatically after the set time has elapsed.
- Press the **SLEEP** key while the sleep timer is activated to check the remaining time.

The system has been set up so that the display is dimmed automatically while the sleep timer is activated.

To cancel

Turn the unit OFF or press the SLEEP key until the sleep time is cancelled.

Setting the O.T.T. timer

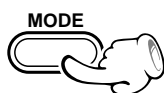
Timer playback which occurs only once and only for an hour can be programmed by simply setting the start time. The timer playback reproduces the source selected at the last time the unit is turned off at the last set volume.

It is not recommended to play a DVD VIDEO or VCD disc using the timer function, for expected playback may sometimes be unavailable with these discs.

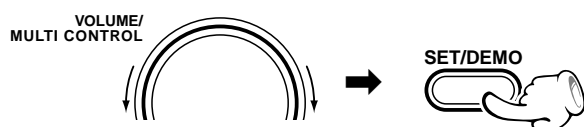
Adjust the clock before setting the timer → 17

❶ Select the desired source.

❷ Press the **MODE** key.



❸ Turn the **VOLUME/MULTI CONTROL** knob to select "TIMER SET", then press the **SET/ DEMO** key.



❹ Turn the **VOLUME/MULTI CONTROL** knob to select "O.T.T. SET ?", then press the **SET/ DEMO** key.

❺ Set the timer ON time by turning the **VOLUME/MULTI CONTROL** knob.



❻ Press the **SET/ DEMO** key.

❼ Turn the **VOLUME/MULTI CONTROL** knob to select "ON", then press the **SET/ DEMO** key.

❽ Adjust the volume.

❾ Press the **I / ⏻** key to switch the power OFF (standby).
(When the unit enters the Standby mode, the **STANDBY/TIMER** indicator lights in amber.)

After setting the timer, make sure that the power is set to OFF (Standby).

The program timer does not operate during playback by the O.T.T. timer.

TIMER SET

- When a timer setting has already been made in the selected timer, the setting will be overwritten by the new setting.
- If you make a mistake, press the **MODE** key and restart from step ❷.

7:00am

- The ON time can be set in steps of 5 minutes.

O.T.T. > ON

- If there is a power failure or the power cord is unplugged after the timer reservation has been activated, the **STANDBY/TIMER** indicator blinks in amber. In this case, the clock setting should be restarted from the beginning.



To check or modify the reservation contents, restart the timer reservation from the beginning.

Setting an everyday timer program

Two timer programs (PROG.1, PROG.2) are available. Both of them are 24-hour timer programs which can be executed every day. In each of PROG.1 and PROG.2, the timer data including the operating period and played contents can be set and selected to be activated or not as required.

- It is possible to execute both timer reservation programs PROG.1 and PROG.2 simultaneously.
- The time zones of PROG.1 and PROG.2 should be set by reserving an interval of 1 minute or more so that they are not overlapped.

It is not recommended to play a DVD VIDEO or VCD disc using the timer function, for expected playback may sometimes unavailable with these discs.

Adjust the clock before setting the timer → 17

1 Make preparations for the play.

To listen to CD, MP3

Insert a disc. (Program playback is not possible.) → 24

Playing the auxiliary input source

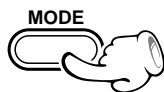
Make timer setting of the component connected to the AUDIO CD-R IN (AUDIO AUX IN) input jacks.
→ 11 → 57

To listen to radio

The station should be preset prior. → 31

2 Select the timer number.

1 Press the MODE key.



2 Turn the VOLUME/MULTI CONTROL knob to select "TIMER SET", then press the SET/ DEMO key.

3 Turn the VOLUME/MULTI CONTROL knob to select "PROG.1 SET ?", then press the SET/ DEMO key.

Example for playing radio broadcast from 10:30am to 11:30am using PROG.1

TIMER SET

- If you make a mistake, press the **MODE** key and restart from step 2.
- When a timer setting has already been made in the selected timer, the setting will be overwritten by the new setting.

3 Set the ON time then the OFF time.

1 Adjust the time.



2 Set it.



ON 10:30am
OFF 11:30am

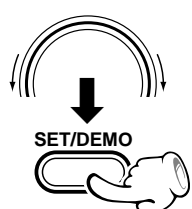
- For each of the ON time and OFF time, enter the figure of "hour" by performing steps 1 and 2 then enter the figure of "minute" in the same manner.
- If you make a mistake, press the **MODE** key and restart from step 2.

4 Make the desired reservation.

For timer playback or AI timer playback

① Select the mode.

(1) Select "PLAY" or "AI PLAY".

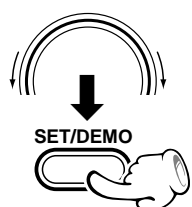


- ① "PLAY"
(Timer play)
- ② "AI PLAY"
(Timer play with gradually increasing volume)

(2) Set it.

② Select the input source.

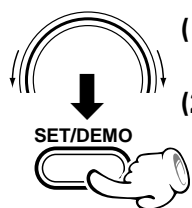
(1) Select the source to be played.



- ① "TUNER" (Broadcasts)
- ② "DVD/CD"
- ③ "CD-R" (Analog)
- ④ "AUX" (Analog)

(2) Set it.

③ Select the broadcast station (only when TUNER is selected above).



(1) Select the preset station No.

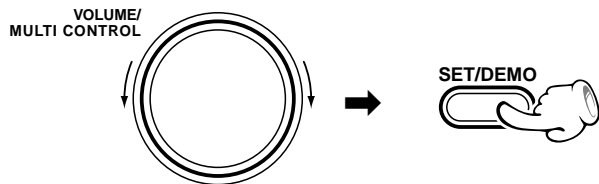
(2) Set it.

- When "PLAY" is selected, the timer playback will start at the volume setting used at the moment the unit is set to the Standby mode.

Continued on next page

5 Reserve the timer operation.

Turn the VOLUME/MULTI CONTROL knob to select "ON", then press the SET/ DEMO key.

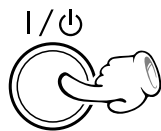


PROG. 1 > ON

- When the timer setting is completed by pressing the **SET/DEMO** key, "**COMPLETE**" is displayed.
- Use the same procedure as above when you want to reserve a program timer operation in PROG.2.

6 Adjust the volume.

7 Put the unit in standby mode.



(When the unit enters the Standby mode, the **STANDBY/TIMER** indicator lights in amber.)

- If there is a power failure or the power cord is unplugged after the timer reservation has been activated, the **STANDBY/TIMER** indicator blinks in amber. In this case, the clock setting should be restarted from the beginning.

After setting the timer, make sure that the power is set to OFF (Standby).

When timer operation is not required

When power is ON, press the **TIMER** key to turn off the timer-related indicators completely.

Each press switches the timer as follows.



- ① O.T.T.
- ② ⌚ 1
- ③ ⌚ 2
- ④ ⌚ 1 2
- ⑤ Extinguished

- The reservation contents are held in memory.

To set the same timer program again

When power is ON, press the **TIMER** key to turn on the timer-related indicators completely.

Each press switches the timer as follows.



- ① O.T.T.
- ② ⌚ 1
- ③ ⌚ 2
- ④ ⌚ 1 2
- ⑤ Extinguished

- Be sure to load a disc and adjust the listening volume.

 To check or modify the reservation contents, restart the timer reservation from the beginning.

Maintenance

Maintenance of the unit

When the front panel or case becomes dirty, wipe with a soft, dry cloth. Do not use thinner, benzine, alcohol, etc. for these agents may cause discoloration.

In regard to contact cleaner

Do not use contact cleaners because it could cause a malfunction. Be specially careful not to use contact cleaners containing oil, for they may deform the plastic component.

Reference

Caution on condensation

Condensation (of dew) may occur inside the unit when there is a great difference in temperature between this unit and the outside.

This unit may not function properly if condensation occurs. In this case, leave the unit for a few hours and re-start the operation after the condensation has dried up. Be specially cautious against condensation in the following circumstances:

When this unit is carried from one place to another across a large difference in temperature, when the humidity in the room where this unit is installed increases, etc.

Memory backup function

Stored contents which are cleared immediately when power plug is unplugged from power outlet

Clock display

Stored contents which are cleared in at least a day after power plug is unplugged from power outlet :

Amplifier section

"on/standby" status (ON or STANDBY), Input selection, Volume control value, Tone control levels, AUX input level, Setting auto power save, Setting dimmer

Tuner section

Receiving band, Frequency, Preset stations, Auto/mono setting, Timer setting contents

Note related to transportation and movement

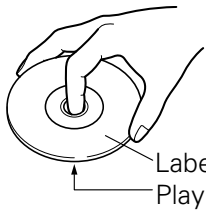
Before transporting or moving this unit, carry out the following operations.

- ❶ Remove the DVD (MP3, VCD, CD) from the unit.
- ❷ Press the DVD/CD ►/II key.
- ❸ Wait for some time and verify that the display becomes as shown in the figure.

NO DISC

- ❹ Wait a few seconds and turn the unit OFF.

Disc handling precautions



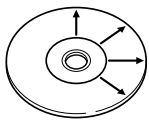
Handling

Hold the disc so that you do not touch the playing surface.



Sticky paste

Do not attach paper or tape to either the playing side or the label side of the disc.



Cleaning

If there are fingerprint marks or foreign matter found on the disc, lightly wipe the disc with a soft cotton cloth (or similar) from the center of the disc outwards in a radial manner.

Storage

When a disc is not to be played for a long period of time, remove it from the player and store it in its case.

Never play a cracked or warped disc

During playback, the disc rotates at high speed in the player. Therefore, to avoid danger, never use a cracked or deformed disc or a disc repaired with tape or adhesive agent. Please do not use discs which are not round because they may cause malfunction.

Disc accessories

The disc accessories (stabilizer, protection sheet, protection ring, etc.) which are marketed for improving the sound quality or protecting discs as well as the disc cleaner should not be used with this system because they may cause malfunction.

Apparatus Claims of U.S. Patent Nos. 4,631,603, 4,577,216, 4,819,098, and 4,907,093 licensed for limited viewing uses only.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited.

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Glossary

DVD (Digital Versatile Disc) : DVD VIDEO is a disc featuring high video/audio quality, made possible by large recording capacity of video and audio signals of movie software, etc. and by digital signal processing.

VIDEO CD (VCD) : This is a CD containing moving picture. By compressing video data to about 1/120 and audio data to about 1/6, a 12 cm disc with the same size as ordinary music CD can store moving pictures and audio for up to about 74 minutes.

The VCD includes the P.B.C.-incompatible discs with only the playback capability (Version 1.1) and P.B.C.-compatible discs with the menu playback and special playback capabilities (Version 2.0)

MPEG (Moving Picture Expert Group) (DVD, VCD) :

A digital video and audio compression and decompression system which is standardized as an international standard.

Decoder: A device for restoring standard audio signal from audio data recorded based on coding into DVD data, etc. This processing is referred to as decoding.

Downmixing: Conversion of multichannel audio signals of DVD into 2-channel stereo signals.

Sampling rate : Sampling refers to converting an analog signal into digital signal by slicing the analog signal into fine parts at a certain time interval and digitizing every sliced part. The sampling rate is the count of slicing per second. The original sound can be reproduced more faithfully when the sampling rate is higher.

Quantization bit : The quantization bit count refers to the number used in digitizing the sliced parts obtained by slicing the analog signal as described above. The quantization bit count is the number of bits used in digitization per second. The original sound can be reproduced more faithfully when the quantization bit count is larger.

Linear PCM (Pulse Code Modulation): Audio signal format without using compression. In the DVD which has a very large disc capacity, the linear PCM signal using high sampling rate can be recorded.

Bitstream (DVD): This is the generic name given for the flow of data based on a standard such as Dolby Digital, DTS, MPEG, etc.

Dolby Digital : A digital audio compression technology developed by Dolby Laboratories, Inc.

DTS : Digital surround system developed by Digital Theater Systems, Inc.

Title/ Title No. (DVD VIDEO): The title is the largest unit of video or audio recorded in DVD VIDEO. Usually, a title corresponding to a movie product with video software or an album (or a piece of music) with music software. The numbers assigned to the titles are referred to as title numbers.

Chapter/Chapter No. (DVD VIDEO): The chapter is a partition of video or audio that is smaller than the title. A title is composed of multiple chapters. The numbers assigned to the chapters are referred to as chapter numbers.

Track/Track No. (VCD, CD): A track is also a section of video and audio recorded in a disc. The numbers assigned to individual tracks are referred to as the track numbers. With most of music CDs, a track is assigned to a piece of music. However, with a VCD, the sections of the contents do not always correspond to the assigned tracks. As (special) playback functions such as skipping and programming of ordinary CDs are based on track number data, such playback functions are sometimes impossible with some VCDs.

Cinema Voice function (DVD) : This function to be used when words are hard to be distinguished during playback of DVD recorded with Dolby Digital Surround.

Subtitle language (DVD): Some DVDs contain the recording of multiple subtitle languages.

Angle (DVD) : Some DVDs contain the recording of multiple viewing angles.

Audio language (DVD) : Some DVDs contain the recording of multiple audio languages.

Aspect ratio: The ratio between the horizontal and vertical sizes of picture displayed on a TV screen. The aspect ratio of ordinary TV is 4:3, and that of widescreen TV is 16:9.

Pan & scan (DVD): Method of displaying a horizontally-long picture recorded in 16:9 aspect ratio on a 4:3 TV screen by trimming part of picture.

In general, the trimming positions for pan & scan are determined uniformly by the reproducing device. However, the pan & scan of DVD allows the software producer to specify the trimming positions to be used in playback.

Letterbox (DVD): Method of displaying a horizontally-long picture recorded in 16:9 aspect ratio on a 4:3 TV screen by attaching bands at the top and bottom of the screen and displaying the horizontally-long picture at the center of screen.

Frame (DVD, VCD): Each frame of a moving picture, that is displayed 30 times a second with NTSC and 25 times a second with PAL. These TV formats reproduce moving pictures by displaying still pictures sequentially.

Field (DVD, VCD): Part of a frame obtained by dividing the video data of each frame by two. Each frame of ordinary TV is constituted by displaying the fields alternately.

Frame still/Field still (DVD, VCD): Types of still pictures obtained by temporarily stopping a moving picture. The frame still picture may produce blur in the picture because it displays two specific fields alternately, but the picture quality is higher. The field still picture has lower picture quality because it uses half the picture information of frame still, but is not accompanied with picture blur.

IPB display (DVD): With the MPEG2 which is one of the video display methods of DVD, each picture is divided into the following three picture types before being coded in digital signal.

I-picture (Intra coded) : This is the standard video and can constitute a picture by itself. As the highest picture quality can be obtained, the still image of I-picture is most suitable for use when adjusting the picture quality.

P-picture (Predictive coded) : Picture calculated based on past pictures (I-picture or P-picture).

B-picture (Bidirectionally predictive coded) :

Picture calculated by comparing the previous and next pictures (I-pictures or P-pictures). This picture type contains least amount of video information.

P.B.C. (PlayBack Control) (VCD): VIDEO CDs carrying messages such as "Playback Control Capable" can be played interactively by selecting the desired play position or information in hierarchical structures while watching the menus displayed on the TV screen.

OSD (On-Screen Display): OSD is a method of interactive operations using the menus and icons displayed on the TV screen.

On-Screen Message : Message displayed on the TV screen when an operation is performed.

What seems to be a malfunction is not always so. Before calling for service, check the following table according to the symptom of your trouble.

Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

Unplug the power cord from the power outlet then, while holding the STOP ■ /TUNING MODE key depressed, plug the power cord again.

- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Amplifier section/Speakers


Symptom	Remedy
Sound is not produced.	<ul style="list-style-type: none"> ● The input selection of the TV and/or AV amplifier is incorrect or these devices are not turned on. ● Connect properly referring to "System connection". → 6 → 10 ● Adjust to an required volume. ● Switch MUTE OFF. → 23 ● Unplug the headphone plug. ● When a DTS-compatible disc is played on this unit, the speakers do not output sound. In this case, set the audio by referring to the instruction manual of the software.
The STANDBY/TIMER indicator blinks in red and no sound is put out.	<ul style="list-style-type: none"> ● A speaker cord is short-circuited. Turn power off and re-connect the speaker cord.
The STANDBY/TIMER indicator blinks in amber.	<ul style="list-style-type: none"> ● Adjust the present time again. → 17
No sound from the headphones.	<ul style="list-style-type: none"> ● Insert correctly. → 10 ● Adjust to an required volume. → 22
Sound is not produced from the left or right speakers.	<ul style="list-style-type: none"> ● Connect properly referring to "System connection". → 6
The clock display blinks without changing the figures.	<ul style="list-style-type: none"> ● Adjust the present time again. → 17
Timer operation is not possible.	<ul style="list-style-type: none"> ● Adjust the present time referring to "Clock adjustment". → 17 ● Set the timer ON time and OFF time. → 62 ● Press the TIMER key to set up the execution. → 59 → 62

Tuner section



Symptom	Remedy
Radio stations cannot be received.	<ul style="list-style-type: none"> ● Connect antennas. → 6 ● Select a band. → 31 ● Tune to the frequency of the desired station. → 31
Noise interferes.	<ul style="list-style-type: none"> ● Install the outdoor antenna in an apart position from the road. ● Switch the suspected electric appliance OFF. ● Install the TV or the system at an increased distance between them.
A station has been preset but it cannot be received by pressing the P.CALL key.	<ul style="list-style-type: none"> ● Preset stations with tunable frequencies. → 33 ● Preset stations again. → 32 → 33

DVD/CD player section



Symptom	Remedy
Playback starts but the video is not output.	<ul style="list-style-type: none"> ● The input selection of the TV and/or AV amplifier is incorrect or these devices are not turned on. ● Connection cords are connected improperly. → 10
The picture is disturbed during forward search or reverse search.	<ul style="list-style-type: none"> ● The picture disturbance during forward search or reverse is normal. This is not a malfunction.
The picture is not neat or the video or audio quality is poor.	<ul style="list-style-type: none"> ● Connection cords are connected improperly. → 10 ● A device generating noise is installed near the signal path. ● The disc is dirty or damaged. To prevent this, remove dirt and handle discs carefully so as not to damage them. → 64 ● There may be condensation of dew on the optical lenses. In this case, leave the player with power ON for a few hours to dry up the condensation, then retry operation. → 63
It takes long time before playback starts.	<ul style="list-style-type: none"> ● The disc type should be detected and motor rotation stabilized before starting playback. This is normal and not a malfunction.
A warning is displayed on the TV screen and playback is not possible.	<ul style="list-style-type: none"> ● The reproduced video may be disturbed or audio may be skipped when the disc surface is stained with fingerprints or dirt. Clean the disc surface by wiping it in the radial directions using a soft cloth. → 64 ● If the disc is placed obliquely or on another disc, place the disc correctly. → 24 ● Playback may be unavailable due to viewing restriction or region code problem. → 20
The top and bottom edges of the picture are cut off.	<ul style="list-style-type: none"> ● The video format of the played disc does not match that of the connected TV. → 18
VCD cannot be played with menu playback.	<ul style="list-style-type: none"> ● Menu playback is not available when P.B.C. is Off. → 35 ● Menu playback is possible only with P.B.C.-compatible VCDs.
Subtitles are not displayed.	<ul style="list-style-type: none"> ● Subtitles are not displayed when the played DVD does not contain the recording of subtitles. ● The subtitle language is set to "Off". → 29
Audio (or subtitle) language cannot be changed.	<ul style="list-style-type: none"> ● The language cannot be switched when the played DVD does not contain the recording of multiple audio (or subtitle) languages.
Viewing angle cannot be changed.	<ul style="list-style-type: none"> ● The viewing angle cannot be switched when the played DVD does not contain the recording of multiple angles. The viewing angle can neither be switched in part where no angle is recorded.
The viewing restriction (Rating) cannot be changed.	<ul style="list-style-type: none"> ● If you have forgotten the password, reset the initial settings you made till now to the factory setting. → 68
The selected audio or subtitle languages is not played.	<ul style="list-style-type: none"> ● If the played DVD does not contain the default language set by the user, the priority language specified for the disc will be selected.

Symptom	Remedy
The TV screen does not show any message when a button is pressed.	<ul style="list-style-type: none"> ● If "On Screen Message" is set to "Off", switch it "On". →  38
The messages in the menus are not displayed in the selected language.	<ul style="list-style-type: none"> ● If the played DVD does not contain the recording of the default language set by the user, the priority language specified for the disc will be selected.
An inhibition icon is displayed and no operation is accepted.	<ul style="list-style-type: none"> ● The operations of certain DVDs and VCDs are restricted by the intention of the software producers. Such discs should be operated in accordance with the software. Operations may also be restricted depending on the player status.

Remote control unit

Symptom	Remedy
Remote control operation is not possible.	<ul style="list-style-type: none"> ● Replace with new batteries. →  15 ● Operate the unit inside the remote controllable range. →  15

Displayed messages and actions to be taken against them

Displayed Message	Meaning
PGM FULL	● An attempt is made to select a 33rd track during programming of CD. →  52
PGM Mode	● An attempt is made to start random playback in the program mode. Exit from the program mode before random playback. →  53
TEXT FULL	● An attempt is made to display the text data of a CD-TEXT disc containing more than 3 kB of text data.

Main unit

[Amplifier section]

Effective output power (P.S.A. on, one channel driven)
Right, Left (1 kHz, 10% T.H.D., at 8 Ω) (RMS)
 5 W + 5 W
Center (1 kHz, 10% T.H.D., at 8 Ω) (RMS)
 5 W
Subwoofer (100 Hz, 10% T.H.D., at 8 Ω) (RMS)
 20 W

[Tuner section]

FM tuner section

Tuning frequency range 87.5 MHz ~ 108 MHz

MW (AM) tuner section

Tuning frequency range

9 kHz step 531 kHz ~ 1,602 kHz

10 kHz step 530 kHz ~ 1,610 kHz

[DVD/CD player section]

Laser	Semiconductor laser
Laser wave length	643 to 683 nm
Laser power class	Class 2 (IEC)
D/A Conversion	1 Bit
Video output format	NTSC/PAL

[General]

Power consumption 75 W
Dimensions W : 240 mm (9-7/16 ")
 H : 139 mm (5-1/2 ")
 D : 360 mm (14-3/16 ")
Weight (net) 5.7 kg (12.6 lb)

Speakers

[Sub-woofer]

Enclosure Bass reflex type
Speaker unit 130 mm (5-1/8")
Impedance 8 Ω
Maximum input level 30 W
Dimensions W : 188 mm (7-3/8")
 H : 139 mm (5-1/2")
 D : 258 mm (10-3/16")
Weight (net) 3.4 kg (7.5 lb)

[Satellite speaker]

Speaker unit 50 mm (1-15/16") x 3
Impedance 8 Ω
Maximum input level 10 W
Dimensions (including the satellite speaker and stand)
 W: 136 mm (5-3/8")
 H: 212.5 mm (8-3/8")
 D: 136 mm (5-3/8")

Weight (net) (including the satellite speaker and stand) 550 g (1.21 lb)



KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

KENWOOD

For your records

Record the serial number, found on the back of the unit, in the spaces designated on the warranty card, and in the space provided below. Refer to the model and serial numbers whenever you call upon your dealer for information or service on this product.

Model	Serial Number